

83561276.q DGPABELLRGAYGVFRKOVLTNN SQNKVIIVAKRLERM AEDGREFREVRALHATH HRNLVRLFGFONE GAYRLLVYEMFN GSLANLLEKPPDPL PS SKRVAITALDVARGLYLHHEIVLTHODIKPENTILDS TGMAKIADFGLAKLL

36870003.q DGPABELLRGAYGVFRKOVLTNN SQNKVIIVAKRLERM AEDGREFREVRALHATH HRNLVRLFGFONE GAYRLLVYEMFN GSLANLLEKRDATL PS SKRVAITALDVARGLYLHHEIVLTHODIKPENTILDS TGMAKIADFGLAKLL

AK107160.q NGFGBELLRGAYGVFRKOVLTNN SQNKVIIVAKRLERM AEDGREFREVRALHATH HRNLVRLFGFONE GAYRLLVYEMFN GSLANLLEKSDASL PAMSKRVAITALDVARGLYLHHEIVLTHODIKPENTILDS LGTAKIADFGLAKLL

83543862.q NGFQRLLRGGFQVYKGVAPD TDIIVAKLLVTS NEYTERERANEVOSTGRTH HRSLVRLTYGCE RBORMLVFEMFG GSRLSFLHQPPRRRPPP PFWWRABALATARGLYLHHEICSLIHOIKPENTILDD KNNPKIADFGLAKLL

19370010.q NGFQRLLRGGFQVYKGVAPD LHPDIAVKKLVTS NEYTERERANEVOSTGRTH HRSLVRLTYGCE RBORMLVFEMFG GSRLSFLHQPPRRRPPP PFWWRABALATARGLYLHHEICSLIHOIKPENTILDD RNNPKIADFGLAKLL

83523651.q GGFSEBVRGGGSVYKGOLED PLQTIIVAKKIDRI MPDIKBEERAEVOTIGWTF HRNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NLPAKISDFGLAKLL

83523649.q GGFSEBVRGGGSVYKGOLED QLTIIIVAKKINKV LFDIKBEERAEVOTIGWTF HRNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NLPAKISDFGLAKLL

83521051.q AGFHVTLGASGVYKGOLED ELKNTIIVAKKIDKL QPTEKBEERAEVOTIGWTF HRNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NLPAKISDFGLAKLL

83521053.q GGFHVTLGASGVYKGOLED ECTIIVAKKIEKLI QPTEKBEERAEVOTIGWTF HRNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NLPAKISDFGLAKLL

83521055.q GGFQVTLGASGVYKGOLED EFGTIIIVAKKIEKLI QPTEKBEERAEVOTIGWTF HRNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NLPAKISDFGLAKLL

83521057.q GDFKRVTLGASGVYKGOLED ELQTIIVAKKIDKI QPTEKBEERAEVOTIGWTF HRNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NLPAKISDFGLAKLL

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83553489.q SDFSEKLGGSFQVFRKGVLPD STAIIVAKLDEL RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD NFAKISDFGLAKLL

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83506115.q KNFSEKLGGSFQVFRKGVLPD ATIVAVKLEGF RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD SFAPKVADFGLAKLL

83506120.q KNFSEKLGGSFQVFRKGVLPD ATIVAVKLEGF RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD SFAPKVADFGLAKLL

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83503709.q NMFSEKLGGSFQVFRKGVLPD DATIVAVKLEGV RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD AFAKVADFGLAKLL

83504165.q KNFSEKLGGSFQVFRKGVLPD QTIIVAKKLDGV RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD AFAKVADFGLAKLL

83506275.q TAIIVAKLDEL RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD AFAKVADFGLAKLL

83506276.q RNFSEKLGGSFQVFRKGVLPD ATIVAVKLEGV RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD AFAKVADFGLAKLL

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27450012.q KNFSEKLGGSFQVFRKGVLPD CSVMVAKLKCV FRSEKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

27450011.q KCFSEKLGGSFQVFRKGVLPD FSVWVAKKLDL RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

27450025.q GNFSEKLGGSFQVFRKGVLPD STTIIVAKKLGCV GAEKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

AK101712.q CNFSEKLGGSFQVFRKGVLPD STTIIVAVKLGEL GYAEKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

27450023.q RNFSEKLGGSFQVFRKGVLPD STTIIVAKKLGEL GHTSEKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

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83523926.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

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AK073860.q KNFSEKLGGSFQVFRKGVLPD LTTIIVAKKLDGD RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83550781.q KCFSEKLGGSFQVFRKGVLPD QTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

49240020.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGL RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

49240018.q KIFSEKLGGSFQVFRKGVLPD STTIIVAKKLDL RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

AK110836.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523195.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83621446.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83621450.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGT RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523198.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523199.q KAFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA YQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523204.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523203.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83500525.q KNFSEKLGGSFQVFRKGVLPD STTIIVAKKLDGR RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523201.q KNFSEKLGGSFQVFRKGVLPD SRTIIVAKKLAGA HQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523191.q TNSMERLGGGSFQVFRKGVLPD STTIIVAKKLDHA CQI QCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523194.q NNFSEKLGGSFQVFRKGVLPD YTIIVAKKLDHA CQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83523187.q KNFSEKLGGSFQVFRKGVLPD STAIIVAKLVSYS CQVCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

30150020.q DGFQYAVRGGGSVYKGOLED QTAIVAKKIDGG ADHADKBEERAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

15241250.p DGRFSLIKGGGSVYKGOLED CSQVAVKRIEGE ECKGPREPSEVAHAASVQ HKNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

49890009.q DNFQGVFRGGGSVYKGOLED QTAIVAKKIVCD ESVGADRLSEITIVASVH EYALVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

18420747.p NNFSEKLGGSFQVFRKGVLPD ETIIVAKKLDRA LSHQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

24530012.q NNFSEKLGGSFQVFRKGVLPD KVIIVAKKLDRI HQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

AK065388.q GDFSEKLGGSFQVFRKGVLPD KIVAVKLDSDI CQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

27150008.q KDFSEKLGGSFQVFRKGVLPD EKTIIVAKLDQA SCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83522127.q KDFSEKLGGSFQVFRKGVLPD ERVAVKLESA KQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83522123.q EDFSEKLGGSFQVFRKGVLPD KRIVAVKLEGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83525596.q EDFSEKLGGSFQVFRKGVLPD ESVGAVKLEGA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83522111.q EDFSEKLGGSFQVFRKGVLPD ERVAVKLESA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83522113.q GCVVOKLGGGSFQVFRKGVLPD ERVAVKLESA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83522115.q EDFSEKLGGSFQVFRKGVLPD ERVAVKLESA RQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83500975.q NDFSEKLGGSFQVFRKGVLPD EMVAVKLDRA GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

28060022.q DDFRKLGGGSFQVFRKGVLPD ERVAVKLDQS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

28060019.q DDFRKLGGGSFQVFRKGVLPD ERVAVKLDNR GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

AK069883.q SDFSEKLGGSFQVFRKGVLPD GSTIIVAKKLEGI GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

22329085.p NNFSEKLGGSFQVFRKGVLPD SRVAVKLEGI GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

15238483.p ENFKMLGGGSFQVFRKGVLPD ETIIVAKKIDNH GLEKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

AK102152.q SDFSEKLGGSFQVFRKGVLPD GEGTIIVAKKLEAA GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

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AK108649.q EGFSEKLGGSFQVFRKGVLPD PERSAVAVKRMNLL GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83506214.q FERNLIRGGGSVYKGOLED CSVVAVKLDLDD GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

AK066000.q FADRNLRGGGSVYKGOLED CSVVAVKLDLDD GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

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AK067392.q FASANLIRGGGSVYKGOLED CASVAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

20521280.q FSNLNLKGGGSVYKGOLED DTSVAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

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15225456.p FSNLNLKGGGSVYKGOLED CSVAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83561692.q FHSRLKGGGSVYKGOLED ASLAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

83601312.q FASGKLGGGSVYKGOLED CSVAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

30686865.p FASGKLGGGSVYKGOLED CSVAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

15235063.p FSNLNLKGGGSVYKGOLED CSVAVKLDLSS GQCKQORAEVSTIGTH HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

30682270.p IDFAHLSDADVAMK KVLITONK EDEBLVRBEIRVSSLFN HWNLVRLTYGCE GAEKRLVYEMFN GELNLFLEDTVR PSNVRVQVALGVARGLYLHHEICSLIHOIKPENTILDD DFPKVADFGLAKLL

15242204.p FRPESLLIEGGFGVYKQVLD... 30679085.p FRPESLLIEGGFGVYKQVLD... 15240884.p FSAGNIVSBNDSvsnIVYK... 18418600.p FSDSNIVSBSGckasnlVYK... 30688287.p esIRKIVLTYNYGSAVRAK... 30688291.p esIRKIVLTYNYGSAVRAK... 15240178.p FSENLLEGGFLGSVYRAK... 15234728.p FSDPNLIEGGFLGSVYRA... 15237361.p FROEGLIEGGFLGSVYRA... 30679773.p FRKESLIEGGFGVYKQVLD... 15238886.p FRPESLLIEGGFGVYKQVLD... 15240038.p FPHDFLIEGGFGVYKQVLD... AK065392.q FDOQNTIICGGGLVYKAB... 83510504.q FNOBHIIICGGGLVYKAB... 25070008.q FNRBEIIICGGGLVYKAB... 25070010.q FDKENIICGGGLVYKAB... 25070005.q FHKENIICGGGLVYKAB... 25070011.q FDKENIICGGGLVYKAB... 25070012.q FDKENIICGGGLVYKAB... AK100376.q FDKENIICGGGLVYKAB... 25070006.q FDKENIICGGGLVYKAB... 51040021.q FSEBNIICGGGLVYKAB... AK110462.q FSAGNIVSBNDSvsnIVYK... 51040019.q FSPANIICGGGLVYKAB... AK110293.q FSEBNIICGGGLVYKAB... AK109928.q FDBTRIVICGGFGVYRA... AK013166.q FDOQNTIICGGGLVYKAB... AK068495.q FDOQNTIICGGGLVYKAB... 83525390.q FDOQNTIICGGGLVYKAB... 15227264.q FDOQNTIICGGFGVYRA... 41410022.q FSDNIIICGGFGVYRA... 83420006.q FNASNIIICGGFGVYRA... AK100000.q FNASNIIICGGFGVYRA... 30678490.q FNASNIIICGGFGVYRA... 83533882.q FSDNVVIRGGFGVYRA... 83506490.q FSKVHIIICGGFGVYRA... AK110011.q FQCGAVVDDGGFGVYRA... 15240747.p FSKKNIICGGFGVYRA... 57430010.q RESQADVYGRSARVAV... 19360014.q sqlaERGGRSAAVRA... AK102100.q FDRGLIEGRFGVYR... 30682341.p FDRDLIADCKFGVYR... 68470006.q FGDRLIKHGHSDLYG... 70890012.q FGDNLKKGHSDLYG... AK100394.q FGDNLKKGHSDLYG... 15235005.p FSDNIIICGGFGVYRA... 15226721.p FDNANLIRKHSCKFER... 83570924.q FSAEIIICGGFGVYRA... 83562391.q FCAEIIICGGFGVYRA... AK101085.q FHIAQIIICGGFGVYRA... 15235059.p FHNDIIICGGFGVYRA... 15231225.p FSDSMIICGGFGVYRA... 52030003.q FSNASIIICGGFGVYRA... 15226381.p FSAAMIICGGFGVYRA... AK065614.q LNKDIIICGGFGVYRA... AK103026.q LDEBDDICGGFGVYRA... AK100780.q MDDENIICGGFGVYRA... 15227455.p LNBEBIIICGGFGVYRA... AK101312.q LPSAQIIICGGFGVYRA... 30684348.p SNIQIIICGGFGVYRA... 15240594.p SNIQIIICGGFGVYRA... AK068504.q LASLAVIIRGGCGVYRA... 15225153.p LASLAVIIRGGCGVYRA... 83505015.q LTBENLIRGGCGVYRA... AK100082.q LADENLIDKGGAGVYRA... 83511121.q LCBONIIICGGCGVYRA... 83511124.q LYBONIIICGGCGVYRA... 83511174.q ICSBNIICGGCGVYRA... 83511182.q LHEBNIICGGCGVYRA... 83543323.q IREBNIICGGCGVYRA... 83543328.q LADNIIICGGCGVYRA... 15239540.p LMBEVIICGGCGVYRA... 83594183.q VRDENIICGGCGVYRA... 15230921.p IKSBNIIICGGCGVYRA... 83552953.q LSPDFAIICGGCGVYRA... 15235318.p ILSBBIICGGCGVYRA... 63420019.p MKDGNVIRGGCGVYRA... 64170017.p VKENSVIRGGCGVYRA... 46270007.q LKBEVNIICGGCGVYRA... 83550311.p LKBEVNIICGGCGVYRA... AK102670.q LKBEVNIICGGCGVYRA... 83544720.q VKEDNIICGGCGVYRA... 15235366.p VKENSVIRGGCGVYRA... 15229189.p LKEDNIICGGCGVYRA... AK071957.q LIDKNIVIGGGCGVYRA...

AK069324.g LDVDNLTGCGGTQVYRLEDFSK GRGVAVVKQLMKRDR DAKVMRTEEMTDFKTR HRNLIKHLHARLTC GSNFLVYEVYVWV GNYVDAIRREKAGQPE LD EGRYRTAVGTAQGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
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83380009.p LRDKNAIQRGAFGRVYRLEDFSK GQNIAVKRLVCISS NITFGAVKNNHMTAKTR HRNLIKHLHARLTC GGGGQGVSVYIHYEMR SNIYDIAARRKAGGGCGAAABE LD VARRCRITAIQVAGGLVYLHDDCPALIHRTDKSNLILDD DFBPAKIDDFGIKAVI
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83563739.q LITSANVIQSGSVEVYRLEDFSK CDSVAVKLMWSSD EAGARPNEIAAAGSTR HRNLIKHLHARLTC RSTKLLTLYDYDLN GSISSGLPGRGGVKA AE IAPVDIATVAGVAGGLVYLHDDCPALIHRTDKSNLILDD RYBAQADDFGIKAVI
83572635.q LITSANVIQSGSVEVYRLEDFSK CYTFAVKWMST DETTAAAPSEIAAAGSTR HRNLIKHLHARLTC QGARLLTLYDYDLN GSISSGLHGGGAAGKGGAPASdeS QARVDVALVAGVAGGLVYLHDDCPALIHRTDKSNLILDD ANEPEIADDFGIKAVI
30687259.p LITSANVIQSGSVEVYRLEDFSK CESLAVKRMWKE ESGARPNEIAAAGSTR HRNLIKHLHARLTC RNLKLLTLYDYDLN GSISSRLGCGAGKGGC VD EARYDVLVAGVAGGLVYLHDDCPALIHRTDKSNLILDD HFBPEIADDFGIKAVI
15229457.p LVPFVNIQSCSGSVEVYRLEDFSK CEVIAVVKLVFAMVmg-ghdeKTKNVRDESAVVKLEHR HRNLIKHLHARLTC RNLKLLTLYDYDLN GSISSRLGCGAGKGGC VD EARYDVLVAGVAGGLVYLHDDCPALIHRTDKSNLILDD HFBPEIADDFGIKAVI
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AK110271.q VKEANVVGQAVVYRLEDFSK ARAVAVKLVRAAPER eaaaAABPLAEVLEKLEGR HRNLIKHLHARLTC NIDMILYEVYEMN GSIWALDHGGPKKML MD IASRYNVAAGVAGGLVYLHDDCPALIHRTDKSNLILDD DFBPAKIDDFGIKAVI
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15227441.p MKSNCITQDFSTVYRLEDFSK CMIVSVYKLVSDMR aTSHGKQKIMLEKLEGR HRNLIKHLHARLTC EDVALLHHEHMAN GTLQQLLVNDVDPGDNOK PD EARYDVLVAGVAGGLVYLHDDCPALIHRTDKSNLILDD HFBPEIADDFGIKAVI
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83550415.p RABAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
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15238044.p RABAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
83601884.q RABAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
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15237379.p KASAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
15233013.p KASAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
18401662.p RASAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
28140026.p RASAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
83533575.p RASAEVLRGGFQVYRLEDFSK QQVAVKLVSTSS LVKSODEEREEMERGTGSTR HRNLIKHLHARLTC PSTOLLSEFVNGV PSTOLLSEFVNGV RRAgpaSTGGDGF EARRRRIATVAGGLVYLHDDCPALIHRTDKSNLILDD EYBAKLDGFIKAVI
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83582780.g FSATNLILGSSSFGSYVKQKLDGQTDESAYIAVKVLKIQ TPQALKSFIAECNALRNMR HRNLVKIVITICSSRGNDPKALIVYDFEMN GSLEDLIEPETNDQTEMKY LGLVORVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDS DMVAEVGDFGLARIL AEG
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AK102251.g FSATNLILGSSSFGSYVKQKLVIAIGESPIYIAVKVLKIQ TPQALKSFIAECNALRNMR HRNLVKIVITICSSRGNDPKALIVYDFEMN GSLEDLIEPETNDQDIDHKY LNLGHRVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDA DMVAEVGDFGLARIL VEG
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83513975.g FSATNLILGSSSFGSYVKQKLDGQTGENENIIVAVKVLKIQ TPQALKSFIAECNALRNMR HRNLVKIVITICSSRGNDPKALIVYDFEMN GSLEDLIEPETNDQAEQRH LNLGHRVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDA DMVAEVGDFGLARIL VEG
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40910015.g FVNVLVGTGRYGSVYKQKLNII KNSVSDIVAVKVLKLE QSGSSKSFIAECNALSKIR HRNLVGVITICSSRGNDPKALIVYDFEMN GNLDKILHPEVHSSDFVVKV LTLVORVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDS DMVAEVGDFGLARIL TDPE
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83580631.g FSNLILGGRYGSVYKQKLNII ENNVAVKVLKLE TRGAKSFIAECNALRNMR HRNLVGVITICSSRGNDPKALIVYDFEMN GNLDKILHPEVHSSDFVVKV LTLVORVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDS DMVAEVGDFGLARIL TDPE
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83594289.g FASNLIGRGRYGSVYKQKLNII NEBEVAVKVLKLE QRGAQSFIAECNALRNMR HRNLVGVITICSSRGNDPKALIVYDFEMN GNLDKILHPEVHSSDFVVKV LTLVORVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDS DMVAEVGDFGLARIL TDPE
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61030015.g LSENLIGRGRYGSVYKQKLNII GVSATVAVKVLKLE QTKQTSFIAECNALRNMR HRNLVGVITICSSRGNDPKALIVYDFEMN GNLDKILHPEVHSSDFVVKV LTLVORVHILLDVAICALDYLHRRHGEFVVVDKTKSSNVLLDS DMVAEVGDFGLARIL TDPE
15226084.p KASAVLGRNRSGLVYKQKLNII NGAFAVRRIGAES CAAKKEEFIEVQGLAKLR HNLVVRVIRGHWG-KEEKLISDVYFN GNPLSSISAKSSSFHPK LSEARLKLARGLARGLAYIHD-KKIVHGNIKANNILLDS BEFVIVDDMGLDRIM

210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

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83525042.q GCTHVVSGQCYASPEYALR DRMTKADVYSGVVLLEIISGVRNGSM qTLLPQAWLWEGQ NIMLDDPAMARPAFDAMELLDIERCHITGLCTOD MADDRPT MSAVVMALTSR

71230014.q RYVAPAPCQQL GRVVEBSDVYSGVVLLEIISG KENGLM qQLLPHSFRSKAEH PALHK MSAVVMALTSR Hnkq

15233404.p DRNNLSLNIENFGL EFW EMITN LRPDLGQEDSERYLVEYIRVHYPDN LERVIDEKMKIEGRTFDQVQKAAHPLSLMCTDi IPEL K LERVIDEKMKIEGRTFDQVQKAAHPLSLMCTDi IPEL K

15235391.p I-PASSLSSESTAGTLYAPAYVSK GRLSNKDIDVYSGVVLLEIISGQRNKFRSDNSLeITVQVMKCFASN KMEENTDKMGEDDTDKGEMRMVMOGSLCQOE SPOLRPT MSAVVMALTSR

83530299.q QSHLSTGHAFTGYAPAYVSH GQLTKADVYSGVVLLEIITQRKLNSSVASSAAGhSMILWIKHYNEG TLMEILLDPAQDCFTGEGALVGRVGLLCAOA SPNLRFP MSAVVMALTSR

83525263.q QYVLTAFATLTYAPAYAIR GBLTKADVYSGVVLLEIISGAWRLYEQ-S AWRLYEQ-S KILELVDAKLDQDGDFEKEVMVOCITALLCVOE FPNLRPA MSAVVMALTSR

83582067.q DHSHLSTKFAFTLTYAPAYAIH GOLSSEKVDVYSGVVLLEIISGRRKLDARLEPDSqVLEEWAKLYEDN nLLELVDRSLDPBEEVNHBEVRRMTEALLCQOS AVISRPM MSAVVMALTSR

81951033.q DHSHLSTKFAFTLTYAPAYAIH GOLSSEKVDVYSGVVLLEIISGRRKLDARLEPDSqVLEEWAKLYENN nLLELVDRSLDPBEEVNHBEVRRMTEALLCQOS AVISRPT MSAVVMALTSR

24820011.q DDRGRMSTRAGTLYAPAYAIR GCLTKADVYSGVVLLEIISGMSNTSSMSDDEYLLD-DWAERLKBQG LLELVDRSLDPBEEVNHBEVRRMTEALLCQOS SPVORRP MSAVVMALTSR

59390011.q DHTHISTRAGTLYAPAYAMR GBLTKADVYSGVVLLEIISGKENTSYRPEKDFVYLLDWAACVLEHGG nLLELVDRSLDPBEEVNHBEVRRMTEALLCQOS APILRPK MSAVVMALTSR

15231938.p ENTHISTRAGTLYAPAYAMR GBLTKADVYSGVVLLEIISGKENTSSRSKADTFYLLDQWVHLRBEQ LLELVDRSLDPBEEVNHBEVRRMTEALLCQOS APDRSPS MSAVVMALTSR

AK071300.q NITHISTRAGTLYAPAYAMH GBLTKRARDVYSGVVLLEIISGKSSRSLLADDKLLEKAMELHEVG KLELVDSSEMDQDYEKDFVYLLDQWVHLRBEQ AAARSPS MSAVVMALTSR

56330006.q NVSHVSTRAGTLYAPAYVSH GBLTKADVYSGVVLLEIISGRRMSQTISSGmLVLRQAWMLHEQG sLLDMVDSKGGYPEBEALVGRVALLCQOA KPCSRPT MSAVVMALTSR

18398327.p NVTHVSTRAGTLYAPAYALL GBLTKADVYSGVVLLEIISGNSSTRAAAFGDEYmVLEWVWKLREER rLLEVCVDPLETKFPADEVRIRKVALFCQOA AAQRPN MSAVVMALTSR

66660003.q TITHISTRAGTLYAPAYALL GBLTKADVYSGVVLLEIISGSSSSKSTWQDMVLEWVWKLREQG rLLEVCVDPLETKFPADEVRIRKVALFCQOA TSQORPS MSAVVMALTSR

AK103523.q DASHVSTRAGTLYAPAYAIR GOVTRKSDVYSGVVLLEIISGRCNDIKLPEYEDqLLEEKTKCYDQG CLEKADVPSLDDVDVDEACRKLKVVGLCQOD ISKRPT MSAVVMALTSR

AK066645.q DASHVSTRAGTLYAPAYAIR GOVTRKSDVYSGVVLLEIISGRNNTNRLPEYEDqLLEERTWVHYEEG DLKELIDASHSDLLDVAQCMELKVLGLCQOD VIKRPT MSAVVMALTSR

AK066337.q NATHVSTRAGTLYAPAYAIR GOVTRKSDVYSGVVLLEIISGRNNTNRLPEYEDqLLEERTWVRYEQE RLAEITIDASHNDLLDVADEACRKLKVVGLCQOD AMARPN MSAVVMALTSR

83560969.q MTHVSTRAGTLYAPAYAMM GBLTKADVYSGVVLLEIISGRNNDSDVEDDKVLLQWAWCLHENK qPLELIDKLETFEENRERVRVIVVALLCQMG LPHRPP MSAVVMALTSR

AK065548.q KETHISTRAGTLYAPAYAMR GBLTKADVYSGVVLLEIISGRNNTDNLNDKLYLEEWAGLYERE qGIKTVDPKLEDFESBEARVIVVALLCQOG SPHCRPP MSAVVMALTSR

83560984.q KETHISTRAGTLYAPAYAMR GBLTKADVYSGVVLLEIISGRNNTDNLNDKLYLEEWAGLYESE qALGVDPKLEFNEKBEARVIVVALLCQOG SPHCRPP MSAVVMALTSR

64830022.q NQTHVSTRAGTLYAPAYAMR GBLTSKADIFAFQVVMLETVAGRENNDNSLEESKIqLLEEWAGLYEKD qALGVDPKLEFNEKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

83531491.q NQTHVSTRAGTLYAPAYAMR GBLTSKADIFAFQVVMLETVAGRENNDNSLEESKIqLLEEWAGLYEMD qALGVDPKLEFNEKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

83534700.q KKHVSTRAGTLYAPAYAMR GBLTSKADVYSGVVLLEIISGRNNTNSLEESKIYLEEWAGLYEMG QalRVDPKLEFNEKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

AK067350.q KKHVSTRAGTLYAPAYAMR RBLTSKADVYSGVVLLEIISGRNNTNSLEESKIYLEEWAGLYEKE QaGRVDPKLEFNEKBEARVIVVALLCQOG SPNORPP MSAVVMALTSR

AK068816.q KKHVSTRAGTLYAPAYAMR RBLTSKADVYSGVVLLEIISGRNNTNSLEESKIYLEEWAGLYEKE qALGVDPKLEFNEKBEARVIVVALLCQOG SPYORPP MSAVVMALTSR

66290026.q QTHVSTRAGTLYAPAYAMR GBLTKADVYSGVVLLEIISGRNNTNSLEESKIYLEEWAGLYEKE qALRILDNLKGFENKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

64200009.q KQTHVSTRAGTLYAPAYAMR GRITSEKADIFAFQVVMLETVAGRENNTNSLMSESIYLEEWAGLYEKE qPLGVDPKLEFNEKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

83524885.q KKHVSTRAGTLYAPAYAMR GEMTKKDVYSGVVLLEIISGAWELYEN-N AWELYEN-N rALGVDPKLEFNEKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

83524887.q KKHVSTRAGTLYAPAYAMR GEMTKKDVYSGVVLLEIISGAWELYEN-N AWELYEN-N rALGVDPKLEFNEKBEARVIVVALLCQOG SPHORPP MSAVVMALTSR

AK099657.q KKHVSTRAGTLYAPAYAMR GRITSEKADVYSGVVLLEIISGRNNDALBEDKIYLEEWAGLYEEN YPLGVDPKLEFNEKBEARVIVVALLCQOG SPHORPS MSAVVMALTSR

83524884.q KKHVSTRAGTLYAPAYAMR GRITSEKADVYSGVVLLEIISGRNNDALBEDKIYLEEWAGLYEEN YPLGVDPKLEFNEKBEARVIVVALLCQOG SPHORPS MSAVVMALTSR

15233263.p BSKANRKRWVGTLYAPAYARE GFSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN rVREVIDSLDGSAVENRERVIVVALLCQOG NADDRPS MSAVVMALTSR

61270029.p NAAQSSTRIVGTLYAPAYALD GYCSKADVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RWHLEIDCELDGDRYHASTRCMVALLCVOE DADDRKA MSAVVMALTSR

83533307.q MIESNTRIVGTLYAPAYAFD GYCSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN qGhelVDCRIGRNHVKVTRCIVVALLCVOE RADDPS MSAVVMALTSR

43690009.q LMESATTKGCSGFYAPAYVLLT GFSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN rYKDLVDRSLISAGENIEDAVLRVVMALLCVOA NPERRPN MSAVVMALTSR

19800013.q VAEBQRNRWVGTLYAPAYASR GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RekrvfvsvildysinlknirkawhmrdrgrLHELVDPKLEFNEKBEARVIVVALLCQOG DPTRPT MSAVVMALTSR

AK064280.q VAEBQRNRWVGTLYAPAYASR GRYSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RLHELVDPKLEFNEKBEARVIVVALLCQOG DPTRPT MSAVVMALTSR

19800008.q VAEBQRNRWVGTLYAPAYASR GLYSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RLQELVDPKLEFNEKBEARVIVVALLCQOG DPADRPT MSAVVMALTSR

AK068357.q ARQODVYSGTLYAPAYALR GBLTSKADVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RqAELVDPKLEFNEKBEARVIVVALLCQOG DPADRPS MSAVVMALTSR

71930007.q QDDYINASVSTLYAPAYEYLIE GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN MnkLFDPRKLEFNEKBEARVIVVALLCQOG KATRPT MSAVVMALTSR

AK102027.q EDDYINASVSTLYAPAYEYLIE GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN vMnkLFDPRKLEFNEKBEARVIVVALLCQOG ELIDRPT MSAVVMALTSR

83543188.q KQRRDQVYSGTLYAPAYSTR GFSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KnpErlrISSLRIVSGDAPHLMGQIVGCAHALCVOE DPDRPS MSAVVMALTSR

59980012.q ADKDCGIVVGSRFAPAYKQG GCLSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NIMELIDPRKLEFNEKBEARVIVVALLCQOG SPBRRPS MSAVVMALTSR

59980008.q QDMDCGIVVGSRFAPAYKQG GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NIMEFIDPRKLEFNEKBEARVIVVALLCQOG RV Eilis

40480009.q NTEGNKRWVGTLYAPAYASV GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RWLEIDPRKLEFNEKBEARVIVVALLCQOG NAADRPT MSAVVMALTSR

40480008.q NTEGNKRWVGTLYAPAYASV GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN rWLEIDPRKLEFNEKBEARVIVVALLCQOG NAADRPT MSAVVMALTSR

37350010.q DKENKRWVGTLYAPAYASE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN MRCINVALLCVOE NAADRPT MSAVVMALTSR

AK064115.q NTEGNKRWVGTLYAPAYASE GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RvLDITLQASFPQITPTEGLRKYNTIALCVOE NAADRPT MSAVVMALTSR

83552850.q DVQRNKRWVGTLYAPAYASE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN sWHELVDPKLEFNEKBEARVIVVALLCQOG NAVDRPT MSAVVMALTSR

83552837.q DVQRNKRWVGTLYAPAYASE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN sWHELVDPKLEFNEKBEARVIVVALLCQOG NAVDRPT MSAVVMALTSR

AK060565.q VTEANRKRWVGTLYAPAYASE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN QwHELVDPKLEFNEKBEARVIVVALLCQOD SADDPRN MSAVVMALTSR

AK110461.q MTEANRKRWVGTLYAPAYASE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN ELADPSIYNACEPH KE SPINRPT MSAVVMALTSR

83505375.q ETEANRKRWVGTLYAPAYASE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KAAEMDASHAGDYKBEARVIVVALLCQOE SPBLRPT MSAVVMALTSR

AK103360.q SNEVNGRKRWVGTLYAPAYASE GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN LAERMDPDLGRGYAABEARVIVVALLCQOE DADRPT MSAVVMALTSR

AK105608.q CNEVNGRKRWVGTLYAPAYALE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN rGIELLDQALRESCTEGLKLVNVALCVOE DPNRPT MSAVVMALTSR

15236268.p ETSANRKRWVGTLYAPAYALE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KayEIIDBARNVSECTDISEVVRVIVVALLCQOE DKPRPN MSAVVMALTSR

15237045.p ETEANRKRWVGTLYAPAYALE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN rELVYBEEVBEETSVIDPEVVRVIVVALLCQOE KPRDRPT MSAVVMALTSR

15237047.p QSESSNKRWVGTLYAPAYALD DTEINRKRWVGTLYAPAYAMD GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NsLDIVDKHNGSFPQDEVVRVIVVALLCQOE NPDDRPL MSAVVMALTSR

AK110116.q ETEINRKRWVGTLYAPAYAMD GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KsLELADETRKNGSFPQDEVVRVIVVALLCQOE NPDDRPL MSAVVMALTSR

47360009.q ETEINRKRWVGTLYAPAYAMD GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RSLLEFDQSLAGTSNVVSEVVRVIVVALLCQOE QPRRPT MSAVVMALTSR

AK066162.q QTSAYKKVGTLYAPAYAMD GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RvDLIDDLQGGSFSEVVRVIVVALLCQOE QRNRPL MSAVVMALTSR

47360004.q QTTAYKKVGTLYAPAYAMD GYVSKDVFYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NallALDEAVAGGGGGGGYSEVVRVIVVALLCQOE RPRDRP MSAVVMALTSR

83553464.q TDSHKKVGTLYAPAYAMD ETEANRKRWVGTLYAPAYAME GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KgleIVDSLIIVDSSSSMLFSQPEVVRVIVVALLCQOE RAEDRPK MSAVVMALTSR

15234424.p ETEANRKRWVGTLYAPAYAME GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KGLEIIDFHTDSSSTFRQHEVVRVIVVALLCQOE RAEDRPT MSAVVMALTSR

59180010.q QOKRKRWVGTLYAPAYAMG GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KADIMIDPHTANCLLDEVILCHVALLCQOE NLNDRPL MSAVVMALTSR

59180009.q QONRKRWVGTLYAPAYAMG QONRKRWVGTLYAPAYAMG KAKNMDPSIVAS CULD EPLTS KAL-AMSSK

59180008.q QONANRKRWVGTLYAPAYAME CMFSKTDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN RaKELVDIMTESCTLDEALLCHVALLCQOE NPDDRPL MSAVVMALTSR

59760019.q QONANRKRWVGTLYAPAYAME GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KTKDLADSSIGSCLLEALLCHVALLCQOD NPDDRPL MSAVVMALTSR

59180002.q QONANRKRWVGTLYAPAYALE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KMKDLADSSIMDSCLLEALLCHVALLCQOE NPDDRPL MSAVVMALTSR

59180001.q QONANRKRWVGTLYAPAYALE GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KMKDLADSSIMDSCLLEALLCHVALLCQOE NPDDRPL MSAVVMALTSR

59760018.q QONANRKRWVGTLYAPAYAME GFLSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KTEDLADSSIMDSCLQDEVLLCHVALLCQOE NPDDRPL MSAVVMALTSR

83340006.q QOENRKRWVGTLYAPAYAMD GAFSWSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KAMDVSSSHASCSKMEVRLCHVALLCQOD NPDDRPL MSAVVMALTSR

22086619.q QOQANRKRWVGTLYAPAYAME GAFSWSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NarDIVDSSVWSCPLLEVVRVIVVALLCQOD HPDRRPL MSAVVMALTSR

18600009.q BQOANRKRWVGTLYAPAYALD GYVSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NarDFVSSVWSCPLLEVVRVIVVALLCQOD QPDRPL MSAVVMALTSR

AK065352.q KQOENRKRWVGTLYAPAYALE GAFSWSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NAMDVSSVWSCPLLEVVRVIVVALLCQOD QPDRPL MSAVVMALTSR

22086625.q QOQANRKRWVGTLYAPAYVLG GAFSWSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NaTELLKFFVDSYLFEBARVIVVALLCQOD HNDRPS MSAVVMALTSR

83525032.q QOQANRKRWVGTLYAPAYAMD GAFSWSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN kTMDLVDSSIAESCSKNEV LQNN

54930001.q QOQANRKRWVGTLYAPAYAME GYVSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN KaeKRVDSHLECYSLNEFLLCHEVALLCQOE DPNRPL MSAVVMALTSR

83340011.q QOQANRKRWVGTLYAPAYAME GYVSKSDVYSGVVLLEIISGRNNSFHHDSGepLNLVHVNLFKEN NaEDVDSHLECYSLNEFLLCHEVALLCQOE DPNRPP MSAVVMALTSR

AK101616.g --- ONQVFNRRVVTGLGYMSPFYAME GDFSVRSDDVYSGVLLLEIITCGKRNSSFHMHGESSLNVGYAWQLWNGD rGQELIDPFRGTCPAKGALRCVHMALLCVOD HAHRPFD TPYVVMILSSD
83553469.g --- ONQVFNRRVVTGLGYMSPFYAME GDFSVRSDDVYSGVLLLEIITCGKRNSSFHMHGESSLNVGYAWQLWNGD kGEEIDPFRGTCPAKGALRCVHMALLCVOD HAQRFPD LPAVIMILSSD
15234429.p --- ONEANVRRVVTGLGYMSPFYAME GDFSVRSDDVYSGVLLLEIITCGKRNSSLRSSEHGSLHYAWNYLTHG RSEELVDPFRGTCSKRALRCVHMALLCVOD SAABRPN MASVIMILSSD
15234346.p --- QIDDSQRRVVTGLGYMSPFYALG GDFSVRSDDVYSGVLLLEIITCGKRNTRFVHNDKHSLEHAYEWSWCBET kGVSILDEPFRGCCSYSLBEAMRCVHMALLCVOD HFKDRPM ISQIVVMILSSD
AK110420.q --- ASVANRRVVTGLGYMSPFYALH GDFSVRSDDVYSGVLLLEIITCGKRNTRFVHNDKHSLEHAYEWSWCBET GagELLDGCFAGRRPPELRCVHMALLCVOD DQDLRPG MAAVVIMILNSR
15234659.p --- QTQANRRVVTGLGYMSPFYAIH GDFSVRSDDVYSGVLLLEIITCGKRNSSFYEDDGLGLVYVVKLWVNG sPSELVDEAMRNQFTNEVRCVHMALLCVOD DSSBRPS MDDILVMILNSD
30686073.p --- QTQONRRVVTGLGYMSPFYAMR GDFSVRSDDVYSGVLLLEIITCGKRNNSFIEDDAQDLYVHAWRLWRNG TALDIVDPLHANCQNSSEVVRCHVHMALLCVOD DWRKRA MSTIFVMILNS
22328878.p --- QTQENRRVVTGLGYMSPFYAIH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYETDGAHPLVTHAWRLWSNG TALDIVDPLHANCQNSSEVVRCHVHMALLCVOD DPABRPI LSTIFVMILNS
30686066.p --- DNTSRIVGCTHVGSGGYMSPFYAMH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQESDGAQDLHAWRLWNTK GADLIDVDPHANCQNSSEVVRCHVHMALLCVOD DPAKRA MSTIFVMILNS
15236415.p --- QTQDNRRVVTGLGYMSPFYAMH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQESDGAQDLHAWRLWNTK tALDIVDPLHANCQNSSEVVRCHVHMALLCVOD DPAKRPT LSTIFVMILNS
18416076.p --- QTQDNRRVVTGLGYMSPFYAMH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQESDGAQDLHAWRLWNTK kALDIVDPLHANCQNSSEVVRCHVHMALLCVOD DPAKRA LSTIFVMILNS
30686087.p --- QTEANRRVVTGLGYMSPFYAMH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQDGAHPLVYAWGLWSNG rPSELVDPHATVENCORNEVRCVHMALLCVOD DPAKRPT LSTIFVMILNS
22328880.p --- QTVANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQMDGLVNLVTVVVKLWENK sLHELDPHIFHDDKTSSEVVRCHVHMALLCVOD NPADRPT MSTIFVMILNS
15236444.p --- QTVANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQMDGLVNLVTVVVKLWENK tLHELDPHIFHDDKTSSEVVRCHVHMALLCVOD NPADRPT MSTIFVMILNS
15233391.p --- QTEDNRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYKIDDSGGNLVTHVWRLWND sPLDIDPAPAKESDNDKVRCHVHMALLCVOD TVDRPE MSTIFVMILNS
15233389.p --- QTEDQRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFQMDSSGGNLVTHVWRLWND sPLDIDPAPAKESDNDKVRCHVHMALLCVOD TVDRPE MSTIFVMILNS
15233387.p --- QTEDSRRVVTGLGYMSPFYVAH GDFSVRSDDVYSGVLLLEIITCGKRNNSFYQMDGsvCNLVTVVWRLWNT dsSLELVDPAKSGSYKDEVRCHVHMALLCVOD NFVWRPA LSTIFVMILNS
15236443.p --- QTEATRGRVVTGLGYMSPFYVAN GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHEDGsvCNLVTVVWRLWNE sPSELVDPAPAKESYKDEVRCHVHMALLCVOD NPADRPT MSTIFVMILNS
30686123.p --- QTEANRRVVTGLGYMSPFYVAN GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLRNN gsLLELVDPAKGENYKDEVRCHVHMALLCVOD NPDRRPS MSTIFVMILNS
30686129.p --- QTEANRRVVTGLGYMSPFYVAN GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLRNN gsLLELVDPAKGENYKDEVRCHVHMALLCVOD NPDRRPS MSTIFVMILNS
30686142.p --- QTEATRGRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHEDGsvCNLVTVVWRLWNT PADRPT MSTIFVMILNS
15233393.p --- QSRADRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHEDGsvCNLVTVVWRLWNT DPAKRPT LSTIFVMILNS
15236421.p --- QSVANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
18416092.p --- QSGANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15233396.p --- QSQANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
30686091.p --- QSQANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15236451.p --- QSQANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15231262.p --- QTEANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15236453.p --- QTEANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15236447.p --- QTEANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15236446.p --- QTEANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
30686059.p --- QTEANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
18416074.p --- QTEANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
30686099.p --- QSVANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
30686101.p --- QSVANRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
58200015.g --- HTQIKARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
58200020.g --- GHTTHKARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553351.g --- GHTHSRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553348.g --- GHTHSRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
AK103108.q --- GHTNTRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83580964.q --- EKTRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
41140022.q --- TKTHITTKVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83583115.q --- TLSHHTKVVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83522765.q --- SHHTKVVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
41140028.q --- TKTHITKVVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83522764.q --- STQTFTRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83581076.q --- QTRVCTRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
44889006.q --- QTRLLTRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
30681932.p --- ENAAETTRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15234344.p --- ENAAETTRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15233525.p --- QTRAVRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15233561.p --- ETREARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15233558.p --- ETREARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15233523.p --- ETREARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15233524.p --- ETREARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
22328852.p --- MTRFRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15234434.p --- STHRFRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
18411492.p --- SQMFRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
30678781.p --- DDDQTSRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15234824.p --- HTTORARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
40810019.q --- KTTIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
40810020.q --- KTASIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
21780012.q --- NKTASVRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
AK073556.q --- QSKDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83554177.q --- DOSQETARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553381.q --- QSOVIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553376.q --- QSKDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553380.q --- QSEDVIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
58200017.q --- QTRREVIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
58200016.q --- QTRREVIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
AK101714.q --- QTQDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
15240717.p --- SSSP PDPdSLQEBETKP
83582650.q --- QSHVIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
71750028.q --- QSHVIRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
AK100849.q --- QSQDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553377.q --- QTQDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553379.q --- QTQDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83523003.q --- TLLLODHTETKAMRA TKR QAPs
AK103518.q --- QTQAVRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553349.q --- QTQAVRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553341.q --- QTQAVRRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553389.q --- QTRDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
AK102941.q --- QTRDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
AK109699.q --- QTRDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS
83553391.q --- QTRDVRARRVVTGLGYMSPFYVTH GDFSVRSDDVYSGVLLLEIITCGKRNNSFFHQIDGsvCNLVTVVWRLWNT sPSELVDPHATVENCORNEVRCVHMALLCVOD DPKRPN LSTIFVMILNS

83554178.q --DQTRNATSRVWTLTGYMPEYAMR --CQYSHQDVFSPGVLLVLEIVTC --RRNSYAVVSEHCedHfSLVWRHWNEG --TvEIVVPSHNNHYSRGDHRCINRHLVCOO --NFVDRPP --MSATLMLSSG
AK068992.q --SRGDTHTVSVSMRTPCYAAPBMMQ --AGVTSKQDVYSGVLLLEIVTC --RRNLDDGGAPGSQQQWFFMLAWSKHEA --GHLAEATEGCDAMDKEERTVERMKVAFVCOO --QPEARPP --MSAVRMLBGE
AK106343.q --NRGDTHTVSVSMRTPCYAAPBMMQ --NRGDTHTVSVSMRTPCYAAPBMMQ --EMLMvddaaaainhpsdeiCsgsdgG --GHLAEATEGCDAMDKEERTVERMKVAFVCOO --RPEARPP --MSAVRMLBGE
AK103700.q --ERENTHMSLITGGRTPCYAAPBLWMA --LFAATSKQDVYSGVLLLEIVTC --RRRNYDLAAQAESQEWFKWVWDRYEQ --GDMBCVVAAGIGEDBRAKAEAMCKVAVLCOO --QPEARPP --MSAVRMLBGE
22300019.q --SRDNTHLTITGARTCYAAPBLWLP --LFTVTKQDVYSGVLLLEIVTC --RRRNLDTQRPESQWYFRWAWQRFDO --GRFGEVMAASGIRSKDGEKAEIRCKVAVLCOO --QPEARPP --MSAVRMLBGE
AK109632.q --DREKTHLMLTGGRTCYAAPBLKPK --LFTVTKQDVYSGVLLLEIVTC --YMHGMSQEQWYFRWAWQRFDO --ETEAUVARAYAGQAAAADKAEIRCKVAVLCOO --RPEARPP --MSAVRMLBGE
40680009.q --SKKEKVTMSRTRCYAAPBLVH --REHITAKADVYSGVLLLEIVTC --RRNYGFRQDSVGSBDWYFKWAFEKV --YVERRiddidp --IVQAAAYDDDPASLAVRVMKAMVCOO --RADMRPS --MKVAVMLBGT
26910016.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSVBSQNEVYFPECIYEQVTTG --RDLELGREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
83500179.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSVBSNVVYFPEWIEQVNSG --QDLALGREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
83500184.q --ARDQSIIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSVBSNVVYFPEWIEQVNTIG --QDLALGREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
83500181.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSVBSNVVYFPEWIEQVNSG --QDLALGREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
26910018.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSVBSQNEVYFPECIYEQVTTG --QDLALGREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
27000029.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900017.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIEDQNEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900013.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --BDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900007.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
28060021.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900027.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900011.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
27000020.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900015.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
28060017.q --ARDQSIVITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
28060018.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900006.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
AK073168.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900026.q --PQNSFVPSAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
27000018.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
AK068451.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
AK066041.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
49900014.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
26910014.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
26910017.q --SVRDRLGLRCPASDFQGWCCARKKIADKDRkfdag --lilwli --kernatv --vegats --ssllcaai --edewes --kkaaslltale --LTRRETSEISDIADMHELEKICLVGFCICOM --RSCDRPT --MSBVIDMLBGG
AK065867.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
27000017.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
AK074011.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
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27000021.q --PRDQSIITLTAARTCYAAPBLYSRNF --GEISWKSQDVYSGVLLLEIVTC --RRNSDPSIQONEVYFPEWIEKVIIT --QDFVLSREMTQEEKETVROLAVVAVLCOO --NPKNRP --MKVAVMLBGT
15240873.p --KKSISILMLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
30684346.p --KKSISILMLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
15240865.p --EKESILSLLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
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29140009.q --NKESILSLLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
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83562326.q --KPKESKISIGCARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
51690015.q --KPKESKISIGCARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
16904687.q --LWKSISILSLLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK099912.q --RTKESKLSLMDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
28610021.q --RTKESKLSLMDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83500351.q --RTKESKLSLMDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83520796.q --NKESILSLLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK110482.q --NKESILSLLDARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK072359.q --HLKDSALSMAEARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83500350.q --RLKDSALSMAEARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83500348.q --HLKDSALSMAEARCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
18900009.q --QRNDLDDPASFGRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK110253.q --QRNDLDDPASFGRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83580288.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83590269.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
70990013.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
66350010.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
70990012.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
66350008.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
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AK101473.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
51080010.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
51080004.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
51080002.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
19410014.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
22300015.q --SRDAGSHMALSRRVCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
22300014.q --SRDAGSHMALSRRVCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK065898.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
30130014.q --KPBAAQMSRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
30130013.q --KQGTALMLSRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
30130015.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
30130017.q --SRGNTETOSKTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83504419.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83507044.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83504401.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
37330015.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK101461.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83504398.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
83504399.q --KRDGSCGLSRRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN
AK066616.q --NRDQSDAILTRTRCTVGYAPBMSKFN --GAVSWSQDVYSGVLLLEIVTC --KNIKREVEVTSATDKSSMYPFDWYKDF --EKGEITRFGDSTDEEKEIKVIRKMTLVGFCICOM --NPSDRPP --MKVAVMLBGN

83561276.g --IGNQTKFTGVRTRGYLAPSEKKN --TATTVKVDVYSGVMLELLEIS --GRKSMELKLAEECNISEWAYEYVVSQ --GLKVAAGEDVDVELELRVWVCHTCHON --EPMR --NLIVSLrvlv
36870003.g --IGNQTKFTGVRTRGYLAPSEKKN --TATTVKVDVYSGVMLELLEIS --GRKSMALKLAEECNISEWAYEYMFSG --EMKVAAGKVDELELRVWVCHTCHON --EPVTRPV --MKSVMVMGEGS
AK107160.g --IGNQTKFTGVRTRGYLAPSEKKN --TATTVKADVYSGIMLLELVISC --KRSMDLKRAGEBYNISEWAYECVMFG --EMKVAAGKVDELELRVWVCHTCHON --EPMR --MKSVMVMGEGS
83543862.g --GDEQLHTTIVNVRTRGYLAPSEKKN --DRRIDTKVDVYSGVLMLEIMIC --GRRCQDFITSLHGDNDGDDDDVT --LfgwaaqvlshgrVEVILRSDDDAEDLELRVERFARVAFVCIH --NPISLRPT --IHOVVMLEBGV
19370010.g --GDQQMYTIVNVRTRGYLAPSEKKN --ERRIDTKVDVYSGVLMLEIMIC --GRRCQDFVTSQEGGDDHNSVVTLFG --WASQLVnhGRVEVILRSDDDAEDLELRVERFARVAFVCIH --NPISLRPT --IHOVVMLEBGV
83523651.g --RMDQQTITGHRTRGYLAPSEKKN --IATIAKVDVYSGVILLEIICC --RRNVEKDMNRELLTDWANDCYRS --GRIDLIVGDDDEAIFNKKRVERFARVAFVCIH --DPAHRPT --MKSVMVMGEGS
83523649.g --QMDQQTITGHRTRGYLAPSEKKN --IAVTAKVDVYSGVILLEIICC --RRNVEQDIDDRAITTDWANDCYRS --GRIDLIVGDDDEAIFNKKRVERFARVAFVCIH --DPAHRPT --MKSVMVMGEGS
83521051.g --LTIQRTITGHRTRGYLAPSEKKN --IGITSKVDVYSGVILLELVCC --RRNVELEVVDEQITVYTWANDCYRS --GRIDLIVGDDDEAIFNKKRVERFARVAFVCIH --DPAHRPT --MKSVMVMGEGS
83521053.g --PVNQQTITGHRTRGYLAPSEKKN --IGITSKVDVYSGVILLELVCC --GRKNELEVAEEQITVYTWANDCYR --CgRIDLLVAGDDEAIFNKKRVERFARVAFVCIH --EPMRPT --MKSVMVMGEGS
83521055.g --PVNQQTITGHRTRGYLAPSEKKN --IGITSKVDVYSGVILLELVCC --GRKNELEVAEEQITVYTWANDCYR --CgRIDLLVAGDDEAIFNKKRVERFARVAFVCIH --EPMRPT --MKSVMVMGEGS
83521057.g --RTNQQTITGHRTRGYLAPSEKKN --VGTAKVDVYSGVILLEIICC --RONVMEAAEBEQITVYTWANDCYR --CgRVDDLIVGDDDEAKLNKKRVERFARVAFVCIH --EPMRPT --MKSVMVMGEGS
AK060765.g --GRDFSRLVITFRITVGYLAPSELAG --TEVTAKADVYSGVILLELVISC --RRNSTAPSSSSEGGGPIYFVHAVVVKL --NEGDAVGLVDERVAKDADPELRVERCKVACWCIQ --EEDRPT --MGLVVQLEBGI
83535489.g --GRDFSRLVITFRITVGYLAPSELAG --VITTKADVYSGVILLELVISC --RRNADLEGGEGKSSFFPIAVNKLQGG --DVQTLDDPRLNDGASDELKAKKACVACWCIQ --DENRPT --MGOVVLLBFG
15224721.p --GRDFSRLVITFRITVGYLAPSELAG --VAITAKADVYSGVILLELVISC --RRNVEQSENEKVRFFPSWAATILTKDD --GDIRSLVDRLEBGADLELRVERCKVACWCIQ --DENRPT --MGOVVLLBFG
83506115.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNVGTRRRRGAADRFLFLVAAGRL --VGGGGtrreeLVSAVVDGRGGDDADMBEABRACVAFWCIQ --DENRPT --MATVUVLBEGL
83506120.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNVEEREDGTADITLLAASRLVGG --VGDGRreeLVSAVVDGRGGDDADMBEABRACVAFWCIQ --DENRPT --MATVUVLBEGL
AK065439.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNVQEGGGAADVDFLLAASRLVGG --GGGRDELVSADVVDGRGVNADMBEABRACVAFWCIQ --DENRPT --MATVUVLBEGL
AK099945.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNVEQDQDGAVDFFPATARLLFDG --DLKGAVDGRAGNADMBEABRACVAFWCIQ --SETRPT --MGMVVMLEBGL
83503709.g --GRDSSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNVEQRRRQEAADDE --YDSGAG --TVEDadffptavrMlfdgqDLRDAVDGRAGNADMBEABRACVAFWCIQ --AERAPRT --MGMVVMLEBGL
83504165.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNADWHRQGGQAGTFFPLVAMRL --PEKIQDILGSELSDANLEBEABRACVAFWCIQ --DENRPT --MGEIVMLBGL
83506275.g --GHDFSRLVITFRITVGYLAPSELAG --QAITSKADVYSGVILLELVISC --KRNLEHG --ASTSSMLIAEEIIPKG --GEVHRLDEPVEGDANLEBEABRACVAFWCIQ --HDPORPT --MREIILBGL
83506276.g --GRDFSRLVITFRITVGYLAPSELAG --ESHTKADVYSGVILLELVISC --RRKRNLTQTEIEIFFVVLVARKLVQG --EVLTLDEPVEVDVNLBEABRACVAFWCIQ --DENRPT --MGEIVMLBGL
83506280.g --GRDFSRLVITFRITVGYLAPSELAG --EATITKADVYSGVILLELVISC --KRNQMH --GGSFVPLVARELVGG --ELHKLFGSELSDMNLBEABRACVAFWCIQ --SESRPT --MGEIVMLBGL
73320007.g --DRNFSRLVITFRITVGYLAPSELAG --LPIITKADVYSGVILLELVISC --KRNTELMESKTIKLYFVVAARVING --DISEVDFHRMDITVQLEBEABRACVAFWCIQ --NEARPT --MGOIVVHLQGT
27450012.g --NRDFSRLVITFRITVGYLAPSELAG --LPIITKADVYSGVILLELVISC --RRNSEKIKBGRHTYFFPIAACKVNEG --DVMCLDRLEGNADMBEABRACVAFWCIQ --YEDORPT --MGOVVMLBGL
27450011.g --NRDFSRLVITFRITVGYLAPSELAG --LPIITKADVYSGVILLELVISC --RRNSEKIKBGRHTYFFPIAACKVNEG --DVMCLDRLEGNADMBEABRACVAFWCIQ --YEDORPT --MGOVVMLBGL
27450025.g --GREFNSALITFRITVGYLAPSELAG --QBITKADVYSGVILLELVISC --RRSSEITVKGSHRYFTPIYAAVQMHG --DVLCLLDRLEGNANVLEBETICRVAWCIQ --EENDRPT --MGOVVMLBGL
AK101712.g --GREFNSALITFRITVGYLAPSELAG --QBITKADVYSGVILLELVISC --RRSSTVTKFQSHRYFTPIYAAVQMHG --DVLCLLDRLEGNANVLEBETICRVAWCIQ --EENDRPT --MGOVVMLBGL
27450023.g --GREFNSALITFRITVGYLAPSELAG --QAITSKADVYSGVILLELVISC --RRSSTEKIRHGNHWYFPLIAAAKVNKG --DVLCLLDRLEGNANVLEBETICRVAWCIQ --DELHRPT --MGOVVMLBGL
AK067417.g --GREFNSALITFRITVGYLAPSELAG --QAITSKADVYSGVILLELVISC --RRSSTEKIQHGNHWYFPLIAAAKVNKG --DVLCLLDRLEGNANVLEBETICRVAWCIQ --DELHRPT --MGOVVMLBGL
83523926.g --GRDFSRLVITFRITVGYLAPSELAG --MAISKVDVYSGVILLELVISC --RRNFRGECTSNATYFVQVQVQLLQG --NVQCLLDRLEGNANVLEBETICRVAWCIQ --DELNPT --MGOVVMLBGL
AK103089.g --GRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRNSYKVHTDDNSDQVAFPPVQAIKSL --HEGDVQSLVDPDNGDFSLMVEBVCVACWCIQ --NEIDRPT --MREVVRLBGL
AK066063.g --GRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRNSPEVHTSGNYDATYFVRAINKL --HEGDMSSLVDPDNGDFSLMVEBVCVACWCIQ --DEFRPT --MREVVRLBGL
AK103833.g --GRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRNSPEVHTSGNYDATYFVRAINKL --HEGDMSSLVDPDNGDFSLMVEBVCVACWCIQ --DEFRPT --MREVVRLBGL
AK073860.g --GDGFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRSLPNVHSSNSHAAAYFPVQAIKSL --HEGDVQSLVDPDNGDFSLMVEBVCVACWCIQ --NEFRPT --MREVVRLBGL
83550781.g --GRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRNSPKVYASNSYHGAYFVRAINKL --HVGDVHSLMDPRLEHDFSLMVEBVCVACWCIQ --IESDRPT --MREVVRLBGL
49240020.g --GRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRNSPEVHTSGNYDATYFVRAINKL --HEGDMSSLVDPDNGDFSLMVEBVCVACWCIQ --NEIDRPT --MREVVRLBGL
49240018.g --RRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --RRNLSDAYTSNHMYHDFYFPVQAIKSL --HEGVSQNLDPDNGDFSLMVEBVCVACWCIQ --NEIDRPT --MREVVRLBGL
AK110836.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNSKQSRDQVHEACFPVQVARNL --LNRDLSIVDANHGEVKLEVERCKVACWCIQ --NEFRPT --MREVVRLBGL
83523195.g --GREFTQVITFRITVGYLAPSELAG --TVITSKVDVYSGVILLELVISC --RRNSKQEFATDYEFYPLLVAHKLDD --NAGSLVDONHGDVDLEQVERAFRVAWCIQ --NELDRPT --MREVVRLBGL
83621446.g --GREFSHALITFRITVGYLAPSELAG --TVITSKVDVYSGVILLELVISC --RRNSKQEFATDYEFYPLLVAHKLDD --GLENLVDONHGDVDLEQVERAFRVAWCIQ --SEFRPT --MREVVRLBGL
83621450.g --GREFSHALITFRITVGYLAPSELAG --TVITAKVDVYSGVILLELVISC --RRNSQYEFKGDHSAFYFPVQAIKSL --INGGILVDONHGDVDLEQVERAFRVAWCIQ --SEFRPT --MREVVRLBGL
83523198.g --GREFSRAMITFRITVGYLAPSELAG --TVITSKVDVYSGVILLELVISC --RRNSRHEHFMGDYFYPVQVARKL --LKGEGCLVDONHGDVDLEQVERAFRVAWCIQ --HEFRPT --MREVVRLBGL
83523199.g --GREFSRAMITFRITVGYLAPSELAG --TVITSKVDVYSGVILLELVISC --RRNSRHEHFMGDYFYPVQVARKL --LKGEGCLVDONHGDVDLEQVERAFRVAWCIQ --HEFRPT --MREVVRLBGL
83523204.g --GREFSRAMITFRITVGYLAPSELAG --TVITSKVDVYSGVILLELVISC --RRNSRHEHFMGDYFYPVQVARKL --LKGEGCLVDONHGDVDLEQVERAFRVAWCIQ --HEFRPT --MREVVRLBGL
83523203.g --GREFSRAMITFRITVGYLAPSELAG --TVITSKVDVYSGVILLELVISC --RRNSRHEHFMGDYFYPVQVARKL --LKGEGCLVDONHGDVDLEQVERAFRVAWCIQ --HEFRPT --MREVVRLBGL
83500525.g --GRDFSRLVITFRITVGYLAPSELAG --TAVTAKADVYSGVILLELVISC --RRNSARSEEDGNYVFPVQAIKSL --LDGDVMSLDDQKCGEADLEVERCKVACWCIQ --DEVDRPT --MGOVVLLBGL
83523201.g --GRDFSRLVITFRITVGYLAPSELAG --VEITTKADVYSGVILLELVISC --RRNSNGGCTTGGKDVYFVVKVAHKL --LDGDVMSLDDQKCGEADLEVERCKVACWCIQ --DEVDRPT --MGOVVLLBGL
83523191.g --GRDFSRLVITFRITVGYLAPSELAG --VEITTKADVYSGVILLELVISC --RRNSYTSSEPCGDHDDYFVVLVVRKL --LDGDVMSLDDQKCGEADLEVERCKVACWCIQ --DEVDRPT --MGOVVLLBGL
83523194.g --GRDFSRLVITFRITVGYLAPSELAG --VEITTKADVYSGVILLELVISC --KRNYSYASCPGGDHDYFVVLVVRKL --LDGDVMSLDDQKCGEADLEVERCKVACWCIQ --DEVDRPT --MGOVVLLBGL
83523187.g --GRDFSRLVITFRITVGYLAPSELAG --VAITTKADVYSGVILLELVISC --KRNYSYASCPGGDHDYFVVLVVRKL --LDGDVMSLDDQKCGEADLEVERCKVACWCIQ --DEVDRPT --MGOVVLLBGL
30150020.g --KRSQSVITFRITVGYLAPSELAG --VGTITKADVYSGVILLELVISC --RRNLMQANGDSSASRNYTFYKIA --GDMAREGRVMEIDRRVRLSEGAVEREAVRVLVAFWCIQ --KAGARPT --MARVVMLBGR
15241250.p --GRDLSVITFRITVGYLAPSELAG --GRITSKVDVYSGVILLELVISC --RRSISRVVETKIKKKLRYFVRLVQ --KmrerKIMEIVDRVRLSEGAVEREAVRVLVAFWCIQ --KSKRPT --MARVVMLBGR
49890009.g --GRDLSVITFRITVGYLAPSELAG --ALSAKSDVYSGVILLELVISC --RRNPELAGSGGASQARAPDPDFKEFL --PCVMRdrmeegrImevvdatEMARQGGGAAGVDEBEVVLVAFWCIQ --SRDMPPT --MGOVVMLBGR
18420747.p --GREHSHVITFRITVGYLAPSELAG --REITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --GTSLKAIVKRLQGAABEAVRVLVAFWCIQ --EVSMPPT --MGOVVMLBGL
24530012.g --DRDSSVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK065388.g --DRDSSVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
27150008.g --DRDSSVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83522127.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83522123.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83525596.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83522111.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83522113.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83522115.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83500975.g --ERISKQVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
28060022.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
28060019.g --DRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK069883.g --TRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
22329085.p --TRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
15238483.p --NQESSLFTFRITVGYLAPSELAG --AAISKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK102152.g --SRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK072314.g --TRDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK108649.g --SPDQSKVITFRITVGYLAPSELAG --SITTKADVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83506214.g --REGQSHVITFRITVGYLAPSELAG --YAITSKVDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK066000.g --REGQSHVITFRITVGYLAPSELAG --YAITSKVDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK103589.g --ADDVVSFLKDSAAAGVLAPEYTTT --GFTTKSDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
AK067392.g --ADDVVSFLKDSAAAGVLAPEYTTT --GFTTKSDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
20521280.g --VDDVVSFLKDSAAAGVLAPEYTTT --GFTTKSDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
15235780.p --ADDVVSFLKDSAAAGVLAPEYTTT --GFTTKSDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
15225456.p --TDDVVSFLKDSAAAGVLAPEYTTT --GFTTKSDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83561692.g --AGADDFMSKLEGEAEGPSTACAAAG --GKFTKSDVYSGVILLELVISC --RRNIDMSYDAEDFFYFGWAYKELTN --QVLDLIDNNEBETQLHGEEMIVRKLVAWCIQ --DCKRPT --MGOVVMLBGL
83601312.g --SEERDELSEAALEGN --GNE --K --SKISLMLQAVESQRLINE --SSNFCGGCDdmsVADENATAVAV --ldrsdyvaewiklekanlvswcrglaragnVLEIMDERDdgyYKDAATLVCGLAELCLOR --SFSRPT --SBEVBLBGL
30686865.p --EQVEISV --APE --RD --K --DGSMEEVESVTTVTGYEDFNFG --LVDQSPESVAK --VFG --SVSASPE --ATTVVSVPEM
15235063.p --EQVEISV --APE --RD --K --DGSMEEVESVTTVTGYEDFNFG --LVDQSPESVAK --VFG --SVSASPE --ATTVVSVPEM
30682270.p --ROEALQLQEWSEHCSAFERAPSELDWC --PSHADLDRDILSLGCTLYALMYG --VSPFAYAL --GESGSLQIAIVN --AQIKWpntgpkasyFALHGFYVMMLOP --QAAVPr --PDLILHVDKL

15241535.p RQBALQLQEWVSEHCSAFHAPLWDC PSHADIDRDL SLGCTIYAIMVGVSPPEYAL GESGSLQLAIVN AQIKWptgpkasyPEALHOPVMMLOP QAAVPr TDDITHVVKL
15238190.p SEDFD TRT LIBEEDKskdvVEDNGSILETE svitvfeegnnliswakqlaCngkLLELVKSIHSLKBAQLCHTALCLQR SVKRPST MKSIVMLSGV
ELGFOITVGAFTGYMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
DRGSOITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
8353165.q DKTSCEMIFGSSRYIDPOYCSL CGISPSADYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
56730020.q ASSYVQMPVSSRQYVPEGLHT DQATPSDVSFVGLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83520408.q DNAILITLISSEVYDPOCLKHGK VFKRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK073177.q NNAILKTAISGQYDPOCLKHGK VFKRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83520339.v VEGCVLTSVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83520416.q NGTIQSSMVTENYDDECRKT GKFRNSDVSFVGLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK102268.q DKVKARVLDDECRKT GKFRNSDVSFVGLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83525586.q NGTIQSSMVTENYDDECRKT GKFRNSDVSFVGLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
71090012.q TtAQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
72460027.q GRRSRTTGHAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83593965.q GRGSHHTVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK110310.q GRGSHHTVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83593963.q GRGPHHTVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK108637.q DASQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
44060001.q KGWQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK065575.q KAWQARSVLLTGAQYDDECRKT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK100955.q AKRSRTVLLTGAQYDDECRKT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83592512.q GEPQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
28280008.q GSQPHHTVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK062593.q MSLQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83560196.q IGIKITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83560214.q IGIKITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
31160002.q VGMRTVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83560197.q MGMQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83560218.q VGMQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
59640021.q DGVQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK059130.q VGVQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83560203.q VGIQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
31090007.q VGIQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83560210.q VGVQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK073557.q 1 frLmdSTRKCTGIIYDDECRKT AMATKSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
30685443.p d FRVADSTRKCTGIIYDDECRKT AMATKSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK108779.q VTHHSQVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15240142.p MTHHSQVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
37960019.p RSSFTDLQVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
82860017.q GRSSASMBDSTRKCTGIIYDDECRKT AMATKSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
64410002.q GRSSASMBDSTRKCTGIIYDDECRKT AMATKSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK065935.q KNSYTDVYAGVGLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
24340004.q TSYIDTAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK107391.q TSYIDTAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
37960020.q YMERAGGVTGTYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
58740007.q GGLPLTTPAFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
64970013.q NTSPTSLAAFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK067208.q NKSPTSLAAFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15242646.p DKSPDATAAFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15231802.p DKSPDATAAFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
61980011.q GESPDATAAFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15231975.p GTLQETAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15241006.p GTLQETAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15241007.p GSQNTTAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
30679315.p GSQNTTAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
48450023.p GGDPTAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83593667.p GANPSITRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15233300.p GSDPQATRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
62850015.p GANPSITRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15235275.p KEMVSTRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
18412759.p EQPVTRRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15235547.p GFDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15231734.p GFDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15231747.p GLDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15231745.p GFDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15244335.p GYDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15244334.p GYDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15230698.p CGNAATAAVGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15230700.p GKDAAATAAVGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15230694.p GTNLSATAAVGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15230696.p QGNLSATAAVGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15230670.p GSNLSATAAVGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15227058.p STGHVAPLAVNT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15227054.p STGHVAPLAVNT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15232629.p TNRNMTAVGFTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15252919.p CMDAAMAPLAVREH KEMTSSSDIYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15232332.p GSDPQATRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
18411937.p GSDPQATRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
18411935.p GSDPQATRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
15244347.p GSDPQATRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK071359.q GADPQATRVVGTGLIYLAPECHHT GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK108666.q DTELQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83511813.q DTELQITVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
83511803.q GSDMPTVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE
AK102285.q GVDPOQSNVAGTGMAYEIST GRASRSDVYSGVVLLEIVTCRRSVDRRQGRVFWINLVEKMWDAHY GKGEVITAIIDKRIIGGFDEKQALMIVGLWCAHP DYNIRPT IROAVLNLLE

83550292.q ---GSDPQTTHVVTGTYLAPLRLM GRASVLDVFAFGVLELVTCGRRPIMQSEBQDMLVLDVLLHWRN ESSLIDVVDKRFQNEYNIDBACLAALRGLGLCSHS LPSPRPN MROVMQYLDGD
83550291.q ---GTMQTTTLDVVTGTYLAPLRLT GRASVLDVFAFGVLELVTCGRRPTEBGMNSEKFLVLDVWIDRWHE GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP SPITARP MROVMQYLDND
83550288.q ---GTDMDTTRVVTGTYLAPLRLRR GRASVLDVFAFGVLELVTCGRRPTEBHKMNSDKLLVDMWDCWNE GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP SPAARPS MROVMQYLDND
83550283.q ---GTMQTTTLDVVTGTYLAPLRLQ GRASVLDVFAFGVLELVTCGRRPTEBHKMNSDQLKLVDMWDCWNE GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP SPAARPS MROVMQYLDND
83550280.q ---GADPQTTHVVTGTYLAPLRLAT GRATPLTDVFAFGVLELVTCGRRPINDYADDSQMLDCVVEHWHK GSLLTNMLDKRLGNEYDADBAFLALRGLGLCSHAH FCKSRPS MROVMQYLDGD
83550284.q ---GNDPQTTHVVTGTYLAPLRLMT GRASVLDVFAFGVLELVTCGRRPNNYTHDSPTLLVDMWVVEHWK GSLLTSTLDVRLGDDHNADENLVLKGLGLCSHP ICTIRFP MROVMQYLDNE
83550281.q ---GTDPQTTHVVTGTYLAPLRLVHR GRATPLTDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLDMDMLDKRLGNEYDADBAFLALRGLGLCSHP FENVRPN MROVMQYLDGD
83550286.q ---GSNLHTTIVVTGTYLAPLRLVHT GRATPLTDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLDMDMLDKRLGNEYDADBAFLALRGLGLCSHP FENVRPN MROVMQYLDGD
83551751.q ---DDDPQTTHVVTGTYLAPLRLGHT SKATPLTDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLVSTVSRLEQNEYNIDBAFLALRGLGLCSHP FANARPN MROVMQYLDGS
AK068307.q ---GEDPQSTHVTGTYLAPLRLGRT SKATPLTDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK QSLVDVLDKRLGNEYDADBAFLALRGLGLCSHP FINARPD MROVMQYLDKRE
AK069319.q ---GADPLATTHVVTGTYLAPLRLRS GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP LSNARPN MROVMQYLDGD
83551750.q ---GTDPQTTHVVTGTYLAPLRLRR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FINARPN MROVMQYLDGD
AK066399.q ---GTNPLATTHVVTGTYLAPLRLAT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP IPQARPN MROVMQYLDGD
62100021.q ---GTDLQATTHVVTGTYLAPLRLVQ GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK069990.q ---GTDQSTHVTGTYLAPLRLRT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83553697.q ---GADAKTTHVVTGTYLAPLRLMT GRATPLTDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK101924.q ---GTDPKTTHVVTGTYLAPLRLVRT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK105111.q ---GAVAQATTHVVTGTYLAPLRLGHT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83550305.q ---GADAHVTVVATGTYLAPLRLRF GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
56290013.q ---AADRHTTRVVTGTYLAPLRLAT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK105860.q ---GADPQTTHVVTGTYLAPLRLAT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK107491.q ---GTDHPTTHVVTGTYLAPLRLGHT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK105289.q ---GTDHPTTHVVTGTYLAPLRLGHT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK103808.q ---PWEVMMHRTVVTGTYLAPLRLFYR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83544145.q ---ADFGKQTTLVVTGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83572987.q ---PDGVSHLTVTRVVTGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK068056.q ---PDGATHTVTRVVTGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK058497.q ---PDGVNDHRTVTRVVTGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18400939.p ---PDDTGDGATKAKSNNQYTPSPCDAS GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83530660.q ---DGHESHAVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83511246.q ---DRQESHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK100258.q ---DYKSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83560707.q ---DYKXHTVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK103038.q ---DYKXHTVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK099777.q ---DYKXHTVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18418211.p ---DYKXHTVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22325667.p ---NYNDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30678986.p ---NYNDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
46480003.q ---DRERNVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83604438.q ---DVQKTSVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK066118.q ---DVQKTSVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22326703.p ---DVRRTNVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
37950006.q ---DHGDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
49160022.q ---DHGDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
AK100017.q ---DHGDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15237242.p ---DHGDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22331326.p ---DHEESHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22329033.p ---NHADSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15224077.p ---NHEDSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18417765.p ---VLDKMSVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
83583894.q ---SITL GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15237871.p ---SVGEESHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15233796.p ---PVEGSSQVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15233575.p ---PEDDLSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15233490.p ---PEDDLSHVTVVATGTYLAPLRYAMW GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15238484.p ---VADTATQYRMTSTSTFFYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15239600.p ---IADSVTQYHMTSAACTFCYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15239834.p ---VANTVYQYHMTSAACTFCYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15234952.p ---LSTKFTIYKQSPVGTFCYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22327431.p ---FMQDHTIATAPQSTFCYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15237244.p ---DFGDDKIRPAPATFCYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30685021.p ---FDGDRQRARNTFVGTFCMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22328895.p ---FDGDRQRARNTFVGTFCMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30679428.p ---SVTEMMQARTTYRMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18420244.p ---AQTGVMTSTSTFFYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22329194.p ---TESGVMTSTSTFFYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30681763.p ---KSVNEMEYETDGYRMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15235845.p ---VQTRGMQARTTYRMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22326737.p ---HHTVLSKSTSTFFYDDEPYQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30680171.p ---ASTFLSKSAATPEMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15242848.p ---ASTFLSKSAATPEMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15233846.p ---ANTFLSKSAATPEMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18416060.p ---NATFLSKSAATPEMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30686028.p ---NATFLSKSAATPEMAPSPVQQT GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15240687.p ---DCKRQDGLHTTCCTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15241066.p ---DSRRQDGLHTTCCTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15240646.p ---FDSSKVTLYLQCTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30689316.p ---LSIPSPSSDMLKRLTNPYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
22329080.p ---LSIPSPSSDMLKRLTNPYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15235768.p ---EHLKQDGLHTTCCTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18420882.p ---EQILQDGLHTTCCTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
30683398.p ---EQILQDGLHTTCCTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15242317.p ---LHRSRKTSTVSTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
15236101.p ---VLHSQPKSTVSTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD
18418337.p ---VLHSQPKSTVSTPAYAVPVLNR GRASVLDVFAFGVLELVTCGRRPTEBPKEDSQGRQLLVDMWLNWHK GSLLLEVMDPKRLNGYDDDBACLALRGLGLCSHP FENVRPN MROVMQYLDGD

AK069324.g -----EGSPLSCPAFTHYMAPLAYL-----LKVTSKSDVYSGVIVLELLITCRSPSDQDFGDELIDVSVVSSHLNAG-----NPAALVLDPKVSSHASDMMKVLNATLGVQ-----LPSDRPT-----MRVVMKILDI
AK105669.g -----AEDSAEFCFAFTHYMAPLAYL-----MKVTEKTDVYSGVIVLELLITCRSPDPAFEGKDIYFWLSTKLAAS-----GgaAILDPAFAVSHAAQGMQAALBLCFVS-----LPAQRPT-----MDVVMKILDA
83380009.g -----GEKAYRSSLASDLNYSQYAPLHYLHFQTKqnfEVCNCKRGLTLMVYSGVIVLELLITCRKAGQPASDSDVDIVRVRRRNVVA-----iddvldprvaapsPSSSSAAAAARDRDMKVLKAVLCTAK-----MPDQRPa-----MDVVMKILQLL
15240215.p -----GETAFQSLVHANNSCYAPENLAYS-----KKATSDMDVYSGVIVLELLITCRosaEKAEBGSSGSESLDVIKQVRRK-----INLTDgAAQVLDQKLLSDSOSDMRKRITLALDCTAV-----AAKRRPS-----LKVVKILBGI
AK101039.g -----NSFNHYHAMSRHAGSYCYAPLEYGYT-----TKITSKSDVYSGVIVLELLITCRSAVETVGDSLHIVWAKKMGsYe-----pavNILDPLKRMGDLQVEMQLCALSTAFVQNO-----APABRPT-----MDEVVALEKEV
83500658.g -----DDGASNSPPFPAGSYCYAPLEYGCM-----TKITIKSDVYSGVIVLELLITCRRPTEBAAFEGGqTVQWVREHLHCR-----RdpaeVIDSLRQGRsdTQVEMQLCALSTALCAST-----RPNDRPT-----MDVVAALLRGL
29710014.g -----DDGASSPPFPAGSYCYAPLEYGCM-----TKITIKSDVYSGVIVLELLITCRRPDPAFEGGqSVQWVRDLHCR-----RdpaeIILVRLQGRpdTQVEMQLCALSTALCAST-----RPNDRPT-----MDVVAALLRGL
83563739.g -----SGSAKVDSSKPRFAGSYCYAPLEYASM-----QRISIKSDVYSGVIVLELLITCRRPDPTLPGGqHIVQWVRDLHQAQ-----RavaELLDPLRLRQpEaQVEMQLQVESVAVLCTAH-----RADDPA-----MDVVAALLKEI
83572635.p -----SKLDSAMPAPPRFAGSYCYAPLEYASM-----QRITIKSDVYSGVIVLELLITCRRPDPTLPGGqHIVQWVRDLHQAQ-----RdaaelldarLRGAAGAGADAVEMRQVESVAVLCTAH-----RADDPA-----MDVVMALLKEI
30687259.p -----GIDLAKPTNRPMAAGSYCYAPLEYASM-----QRITIKSDVYSGVIVLELLITCRKRPDPTLPGGqHIVQWVRDLHQAQ-----dpsRLLDPRDGRtdsIMHEMLQTLVAFHCVSn-----KANBRP1-----MDVVMALLTEI
15229457.p -----DEGDIQRCSNIVAGSYCYAPLEYGYT-----MKIITIKSDVYSGVIVLELLITCRKQDPTVPEGqHIVQWVRQNRGLS-----EVLDSLRSRTEaRABEDMQLVSLTALHCVSn-----SPDRPT-----MDVVMALLKEI
AK105581.g -----QSAAPNSVAGSYCYAPLEYGYT-----LKVMSKSDVYSGVIVLELLITCRRSBAEAYEGGNIVDVRVKVAGGg-----vgdvidaAANVDVGTGRDEMALALRVALLCTSR-----CPDQRPa-----MDEVVALEKEA
83600410.g -----ARAHETVSVVAGSYCYAPLEYGYT-----LKVQKSDVYSGVIVLELLITCRRPTEPEYEGSgqDIVGWIRERLRN-----TgveELLDASVGGVRdVHVRBEMLLVLRVAVLCTAH-----SPKDRPT-----MDVVMALLGEA
AK110271.g -----GRAGESVSVVAGSYCYAPLEYGYT-----MKVQKSDVYSGVIVLELLITCRRAVBAAFEGGqDIVGWVRNKRIRN-----TvedHLDGQVAGGqCpHVRBEMLLVLRVAVLCTAH-----LPRDRPS-----MDVVMALLGEA
15235387.p -----ARKKTEVSVVAGSYCYAPLEYGYT-----LKVIDGQSDVYSGVIVLELLITCRRPTEPEYEGSgqDIVGWIRERLRN-----TeleELLDNVNCGAVHYEEMLLVLRVAVLCTAH-----LPRDRPS-----MDVVMALLGEA
AK067635.g -----DILKSSQSLSHATVYGYTPEYAYT-----MRLTMAQNVYSGVIVLELLITCRKPSVSDGIELAKWALSRRGSPDQR-----QILDTRVRSRTCAVHSMLSVLNKAFACVAL-----SPDRPT-----MRVVMKILQI
82190011.g -----DPLKGTASTSRVAGSYTPEYAYT-----MOVTPQNVYSGVIVLELLITCRKLPVDEEFGEGqDLVQWVHSAPARG-----EtpeQIMDEKLSTVSAFWRKMVAVLKAVLCTAH-----APAKRPk-----MDEVVALEKEA
15227441.p -----DPSRGATSSVAGSYCYAPLEYGYT-----MOVTPQNVYSGVIVLELLITCRRAVBAEFGEGqDLVQWVHSAPARG-----EtpeQILDLSTVSAFWRKMVAVLKAVLCTAH-----TPAKRPk-----MDEVVALEKEV
8730021.g -----GASTINRVSAGSYCYAPLEYKnerkkIrsaEFAYT-----MGASTINRVSAGSYCVVLEVMGCKRPDGLLTLPaISSEEDDLLK-----ILDRQLDAPtQLABEVVLRVAVLCTAH-----NPSRPS-----MRVVAQEH-S-
4730016.g -----VGRSCTCDSHAGSYCYAPLEYAYM-----RVVTKSDVYSGVIVLELLITCRKYPGGLLSSLQHSQSLSAEGHDGS-----GggveeasasasarrlllkDQVDRDAPAGKLAQGVVFAVVALSVCRC-----SPDRPT-----MDEVVALEKEA
82040011.g -----KPDSSNSALATYCYAPLEYLFT-----KVVTIKSDVYSGVIVLELLITCRHPMELQLLQHSQSLSAEGHDGS-----ILDERPAPTtAEESLEBILKVLVKE-----SPHARPT-----MDEVVALEKEA
40420009.g -----RFDSSNSALATYCYAPLEYLFT-----KVVTIKSDVYSGVIVLELLITCRHPMELQLLQHSQSLSAEGHDGS-----ILDERPAPTtAEESLEBILKVLVKE-----SPHARPT-----MDEVVALEKEA
82210021.g -----DVEASNCKLAATKCYAPLEYLFT-----TRVTKSDVYSGVIVLELLITCRHPMELQLLQHSQSLSAEGHDGS-----LkDLDLARIPTtKaEASLEBILKVLVKE-----NPSRPT-----MDVVMKILQI
82210017.g -----DVEASNCKLAATKCYAPLEYLFT-----TRVTKSDVYSGVIVLELLITCRHPMELQLLQHSQSLSAEGHDGS-----LkDLDLARIPTtKaEASLEBILKVLVKE-----NPSRPT-----MDVVMKILQI
AK102480.g -----DADGSGHTRATKCYAPLEYLFT-----TKVTKSDVYSGVIVLELLITCRHPMELQLLQHSQSLSAEGHDGS-----LkDLDLARIPTtKaEASLEBILKVLVKE-----NPSRPT-----MDVVMKILQI
30680882.p -----KPDSSNSAWAGSYCYAPLEYLFT-----GTL-----FdpLDKLVdLRLWSGRVEM-----VRFGLGFLNFVQIKT-----KMF-C-
30680877.p -----KPDSSNSAWAGSYCYAPLEYLFT-----MKVITIKSDVYSGVIVLELLITCRHPMELQLLQHSQSLSAEGHDGS-----DHRPEPTtEKKEEVLEBILKVLVKE-----DPAQRPT-----MLSHSTAF-S-
83571276.g -----GDGPATMSVAGSYCYAPLEYLFT-----IRVTEKSDVYSGVIVLELLITCRKSPMSSDIDGK-DLVAWAATNVQEN-----GaESVLDKIEAHFEKEMVLRVAVLCTAH-----LPRDRPS-----MRVVMKILDI
AK072348.g -----SAAPTVAIVAGSYCYAPLEYGYT-----LRITIKSDVYSGVIVLELLITCRKAPAGPELGEKDLVQWVCGCVERDG-----VDRVLDARLAGAFRDRIRRALNVALLCASS-----LPRDRPS-----MRVVMKILLEI
AK067723.g -----EATVREGKMSVAGSYCYAPLEYGYT-----LRVNBKSDVYSGVIVLELLITCRKPPVDFEFGEKDLVQWVCGSTIDQK-----VRLVLDKLDmTfKDEINLVNVALCASS-----LPRDRPS-----MRVVMKILQEV
15235312.p -----MSGSKTPEAMSHAGSYCYAPLEYGYT-----LRVNBKSDVYSGVIVLELLITCRKPPVDFEFGEKDLVQWVCGSTIDQK-----LPRVLDKLDLKRKEEIKVHLELCTSp-----LPRDRPS-----MRVVMKILQEV
83550474.p -----DINSRITMSHAGSYCYAPLEYGYT-----MKVTEKSDVYSGVIVLELLITCRSPITQPLEGGqLVNIVRRMNSST-----TnsEIFDSRLNsrVLEBILKVLVKE-----SPDRPT-----MDEVVALEKEA
15225805.p -----DMLPSKVSVAAGSYCYAPLEYGYT-----MKVITIKSDVYSGVIVLELLITCRAPVQPLEGGqLATWTRNHDRHS-----LteSEILDYRLTKVDEDVILNHMIVTRAVHCVKs-----SPDRPT-----MDEVVALEKEA
40570013.g -----EDDDLDATVSVVGTIYAPLEYGYT-----TRLETKSDVYSGVIVLELLITCRKMPVDFAFGDSVDIVWMSNLNQA-----DrrvImCILDDEIMYVeDEQAKALDLDTAMCYOL-----ACQSRPS-----MDEVVALEKEA
40570012.g -----DDDDATVSVVGTIYAPLEYGYT-----TRLETKSDVYSGVIVLELLITCRKMPVDFAFGDSVDIVWMSNLNQA-----hsnimFLDDEHIVWHEKAKEMVLRVAVLCTAH-----SQDRPS-----MDEVVALEKEA
73710002.g -----DQYFAALQTTCHVGTIYAPLEYMFS-----TKATIKSDVYSGVIVLELLITCRKMAVDSFPGMdIVSVSSKLNEN-----qietICDPAITTEYVGTHEMEBVKLLSHARCTAK-----EASRPS-----MAVVMKILTDV
73710004.g -----DQSSSAFQTTCHVGTIYAPLEYMFS-----TRSSHSKSDVYSGVIVLELLITCRKQVDFPSFPDMdIVGWVATLNGTD-----qielvCDSTIMEEYVGTVEBVKLLSHARCTAK-----EASRPS-----MAVVMKILTDV
AK064052.g -----PSAKSHASTVYVGTIYAPLEYACT-----SRLEBKSDVYSGVIVLELLITCRKAVDNECNLHGLLSKADDNVME-----AVDSEVSVTCTMDGLVVRKAFOLALCtKr-----HPSDRPT-----MDEVVALEKEA
43200007.g -----CVSKTHTSTVYVGTIYAPLEYACT-----SRLEBKSDVYSGVIVLELLITCRKAVDNECNLHGLLSKADDNVME-----TVDDIADITcKDLGEVVKVFOALALCtKr-----QPSDRPT-----MDEVVALEKEA
AK060260.g -----CTSKTHTSTVYVGTIYAPLEYACT-----SRLEBKSDVYSGVIVLELLITCRKAVDNECNLHGLLSKADDNVME-----TVMEVADAVSVTCTMDSGHKKITFOALALCtKr-----NPSRPT-----MDEVVALEKEA
15240720.p -----PAIKTYASTVYVGTIYAPLEYACT-----SRLEBKSDVYSGVIVLELLITCRKAVDNECNLHGLLSKADDNVME-----TVMEVADAVSVTCTMDSGHKKITFOALALCtKr-----NPSRPT-----MDEVVALEKEA
15225286.p -----CVSKSHTVYVGTIYAPLEYACT-----SRLITIKSDVYSGVIVLELLITCRRAVDDENLHLLTMSKTGNVME-----MADDIITSTcKDLGEVVKVFOALALCtKr-----QPSDRPT-----MDEVVALEKEA
AK102667.g -----AAAAAASATVYVGTIYAPLEYACT-----GQATRECDVYSGVIVLELLITCRKPPVDFEFGEKDLVQWVCGCVERDG-----AvaELLEPGLLELDPESSEWBEFLIKVGLCTAP-----DPLDRPa-----MDVVMKILGCG
30690596.p -----IRSPRSVAVLANTITGLVYSPBALSL-----GTLRESDIYSGVIVLELLITCRKPPVDFEFGEKDLVQWVCGCVERDG-----LQRGQTELEPGLLELDPESSEWBEFLIKVGLCTAP-----DPLDRPT-----MDVVMKILGCG
58360018.g -----PIDTHLSTVYVGTIYAPLEYACT-----LVATIKSDVYSGVIVLELLITCRPPVDFEFGEKDLVQWVCGCVERDG-----NnaillQDAVKSHIKGSDGDEFLKVAQSCIS-----TKBRPT-----MDEVVALEKEA
AK073005.g -----FIDHLSSTVYVGTIYAPLEYACT-----LVATIKSDVYSGVIVLELLITCRPPVDFEFGEKDLVQWVCGCVERDG-----NnaillQDAVKSHIKGSDGDEFLKVAQSCIS-----APKBRPT-----MDEVVALEKEA
AK102330.g -----GEGGDISPFLNGDFEYCYAPLEYACT-----PVAITIKSDVYSGVIVLELLITCRRAVGGGFKGSLVDMVQLKASg-----rigDAVKSBRGNGHDSDEDFVKAFAQcV-----HPRBRPS-----MRVVMKILRAI
15233004.p -----PSDNNSSFMNTEFCYCYAPLEYACT-----MLA-SRDKSDVYSGVIVLELLITCRKAVGGGFKGSLVDMVQLKASg-----AETFDENIRGKGDEEISKVEBALNcVss-----RPKBRPS-----MRVVMKILRAI
48470005.g -----PEPSNLQYCYAPLEYACT-----SMSRHHGGKQDFVSGVIVLELLITCRREVSRRRQRQGTIVLVRVYRE-----MvesgtVSGCDFLSMRrFVEAVLQVLKQGVcVse-----SPDRPT-----MDEVVALEKEA
AK103401.g -----PILGYSYELSRHAATCYAPLEYLAPS-----LRYSDKSDVYSGVIVLELLITCRREVSRSFGVATAVLDRVYRAILEDG-----TVSDCDFRSMKGFVEAVLQVLKQGVcVcSn-----TPSBRPT-----MDEVVALEKEA
AK099708.g -----PMLDRYVLSKQOSALCYAPLEYFACR-----TVKITEKSDVYSGVIVLELLITCRREVSRYMEDDVAIVLDRVRAALDVG-----KVEBCVDRCKGfFVEAVLQVLKQGVcVcSn-----VPSNRPd-----MDEVVALEKEA
83533560.g -----PMLDRYVLSKQOSALCYAPLEYFACR-----TVNITEKSDVYSGVIVLELLITCRREVSRYMEDDVAIVLDRVRAALDVG-----RVEDQMDPRGGeFfSMBEAMLIKQGVcVcVcS-----VPSNRPd-----MDEVVALEKEA
AK105103.g -----PMLDRYVLSKQOSALCYAPLEYFACR-----TVKITEKSDVYSGVIVLELLITCRREVSRYMEDDVAIVLDRVRAALDVG-----RVEDQMDPRGGeFfSMBEAMLIKQGVcVcVcS-----VPSNRPd-----MDEVVALEKEA
15241089.p -----ASALDRCVLSKQOSALCYAPLEYFACR-----TVKITEKSDVYSGVIVLELLITCRREVSRYMEDDVAIVLDRVRAALDVG-----LEBRVEBCVDRLRqfFABEAVLQVLKQGVcVcS-----VPSNRPd-----MDEVVALEKEA
15228900.g -----PMLDRYVLSKQOSALCYAPLEYFACR-----TVKITEKSDVYSGVIVLELLITCRREVSRYMEDDVAIVLDRVRAALDVG-----RADCIDFRLQgkFfVEAVLQVLKQGVcVcS-----VPSNRPd-----MDEVVALEKEA
47520009.p -----PKLDKRVMSRFGCMYAPLEYLACQS-----LRINEKSDVYSGVIVLELLITCRRAVVEYGGDDVVILIDQVRLLDHG-----GgsnVLCVDPISGEGFfVEAVLQVLKQGVcVcS-----IPSNRPS-----MDEVVALEKEA
30689028.p -----TQDGNMNNRNFQALCYAPLEYLQCG-----NLRV-NEKSDVYSGVIVLELLITCRREVSRYMEDDVAIVLDRVRAALDVG-----NLVICIDFRLQgkFfVEAVLQVLKQGVcVcS-----IPSNRPS-----MDEVVALEKEA
20860017.g -----GLFLDRAAAAAGGCGWYCYAPLEYLAGAG-----AAGARATQESDVSFGVIVLELVTA-----NADGQSGGGGdGGEEDIMGWVKHGMCTAE-----APBRPr-----MAQVMMGQV
AK073061.g -----TTAAGNSVIAAAGCYAPLEYLQCG-----KKA-SAKTDVYSGVIVLELLITCRKSPATEINGMPLQWVASVKEE-----WtseafDLEDRDGDGPADELVDLKLALCVQp-----SPSBRPT-----AREVRLRQI
15228821.p -----TAAAGNSVIAAAGCYAPLEYLQCG-----KKA-NKTDVYSGVIVLELLITCRKSPATEINGMPLQWVASVKEE-----WtseafDLEDRDGDGPADELVDLKLALCVQp-----SPSBRPT-----AREVRLRQI
15231029.p -----TAAAGNSVIAAAGCYAPLEYLQCG-----KKA-SAKTDVYSGVIVLELLITCRKSPATEINGMPLQWVASVKEE-----WtseafDLEDRDGDGPADELVDLKLALCVQp-----SPSBRPT-----AREVRLRQI
AK060657.g -----NPGAQEMLETSAAGCYAPLEYLQCG-----RDAETEDIYSGVIVLELLITCRKSAKONTFNPFDITLVSFKNLVL-----WtseafDLEDRDGDGPADELVDLKLALCVQp-----SPSBRPT-----AREVRLRQI
15240831.p -----NLSAGQEMLETSAAGCYAPLEYLQCG-----KDVSKSDVYSGVIVLELLITCRKSAKONTFNPFDITLVSFKNLVL-----WtseafDLEDRDGDGPADELVDLKLALCVQp-----SPSBRPT-----AREVRLRQI
83564404.g -----VAAVAKADCYAPLEYLQCG-----GRCSRTDYVAFGILLLELLITCRKASGELFVAVKAAVEEVT-----NAVldhrledIYRPEISDDLSEBECVYKQFAMSScSp-----SPDRPT-----VKQVRLKEI
15230141.p -----VQAVADEYVQAKSDYAPLEYLQCG-----KCC-NERSDVAVFGILLLELLITCRKPKSGRNGNEFVDFSLVKAAVL-----MmeVFDAREVGRVRSFAERGLHALKQAMGcCAB-----VASBRPT-----MDEVVALEKEA
83550415.g -----TQGVVGVILDLVLYCYAPLEYLAASKK-----PSPSKSDVYVAFGVVLELLITCRCAQDVVSGSEgVLDHNVRLRVA-----EettEVFDLEAKGIRISPEBGLHALKQAMGcCAB-----VITVRPS-----MDEVVALEKEA
AK103267.g -----TPSGTAEOQLNLGALCYAPLEYLANTAK-----PMPSSKADVYVAFGVVLELLITCRKAGDILISQSGAVLDHNVQMCNR-----EgrgsdcFDPAADSPEGSVSVKQKDLVGLALCRIL-----PVSBRPT-----MDEVVALEKEA
15238044.p -----TPSGTAEOQLNLGALCYAPLEYLANTAK-----PIPTIKSDVYVAFGVVLELLITCRKAGDILISQSGAVLDHNVQMCNR-----EgrgTDCDRDITGLESFVPMVGLAFSfRCL-----FVNSRPN-----MDEVVALEKEA
83601884.g -----TPICMAEQVNLNAGYCYAPLEYLASSK-----PCPSIKSDVYVAFGVVLELLITCRKIAGEIVCVNDGVDLDRVMLARE-----LDCQEGrrrDCIDRRDAGGEGfSKGMDALVAIRfCIL-----SVNBRPN-----TRVLDHSTI
15225843.p -----TPEATSEQVNLNAGYCYAPLEYLASSK-----PYE-SKSDVYVAFGVVLELLITCRKIVSGIVCSDPqVVELEWVLLVIG-----ErveecYDRRTEAGGSGGAPKALDRIRAFRCIL-----SABRPS-----TRVLDHSTI
15237379.p -----SPSTFNRIDCYAPLEYLQCG-----RKISKADVYSGVIVLELLITCRKSPTHQQL-----HEBEGVLDLFRWSS-----QnratecFDPSIVSGQSRNPFVGLTDVVALSCISp-----APER-Pd-----MKVLSQELRI
15233013.p -----SSTAFNRIDCYAPLEYLQCG-----RKISKADVYSGVIVLELLITCRKSPTHQQLNEBqVDFRWWQSVTEQ-----ITEQQpsdVDFPBTTRYQSDSNENRRLNMGSCITaq-----YDPSRPT-----MDEVVALEKEA
18401662.p -----SASTFTFNRIDCYAPLEYLQCG-----RRV-SQKADVYSGVIVLELLITCRKAPSNVNMNEEGMDLARVHVSARBE-----QtpsdVDFPBTTRYQSDSNENRRLNMGSCITaq-----YDPSRPT-----MDEVVALEKEA
28140026.p -----TIPPARLRYCYAPLEYLQCG-----KLETIKSDVYSGVIVLELLITCRKAPLRSFGREDAIEHfRNVOVSVRE-----WtseafDLEDRDGDGPADELVDLKLALCVQp-----HDKRPr-----MDEVVALEKEA
83533575.g -----AIPHIPARLRYCYAPLEYLQCG-----KRQIKSDVYSGVIVLELLITCRKAPLRSFGREDAIEHfRNVOVSVRE-----eWtAEVDFDLRfRhpNIEDEMVMQLAMACVAA-----PDQRPk-----MDEVVALEKEA
AK103073.g -----SFPISSTRVYCYAPLEYLQCG-----KRQIKSDVYSGVIVLELLITCRKAPLRSFGQDDVDfRNVHSVRE-----eWtAEVDFDDELRLpNIEDEMVMQLAMACVAA-----VDPQRP-----MDEVVALEKEA
AK103598.g -----SVPANASRVVYCYAPLEYLQCG-----KRQIKSDVYSGVIVLELLITCRKAPLRSFGQDDVDfRNVHSVRE-----eWtAEVDFDDELRLQqNIEBEMVMQLAMACVAA-----SPDRPS-----MDEVVALEKEA
83563192.g -----GGAAAPPTTKRGAQCYAPLEYLQCG-----RRVSSADVYSGVIVLELLITCRRPDPAFEGGqAAVDFRWRMSVQE-----eWtAEVFDAAIGNBarTEBEMRLLCLGEMcVh-----HPRDRPa-----MDEVVALEKEA
15210007.g -----GAAVHKRVYCYAPLEYLQCG-----RRVSSADVYSGVIVLELLITCRRPANAVPGFqVDFPQWRVAVH-----WtAEVFDAAIGNBarTEBEMRLLCLGEMcVh-----HPRDRPa-----MDEVVALEKEA
83571773.g -----APPPSSAPAAALRAD-----VRAYGVLLLELLITCRKATAADGALSRWVAVRBE-----WtseafdrALMSSAGAGGDTVASEORVRLLOVMARCTDD-----aspSPPT-----MDEVVALEKEA
24580020.g -----LPSHADLASSVYCYAPLEYLQCG-----HAFTPASDVSFGVIVLELLITCRKAPFDLMEHMSDDPQWRVAVRBE-----ETESGGESASAGTEKLGALLISTAACVDA-----DPARPT-----TDEVVALEKEA
AK100996.g -----BSSSEKDDAAYAPLENMKS-----NRRLTKSDVYVAFGILLLELLITCRKAPLQHSVLVANLOTYV-----QsARDdgVDVREfSMLVfSACVcS-----SPSBRPT-----ANOVKILQI
15229701.p -----DSSVPNDPDISYKAPLIRKSTID-----SRL-TKSDVYSGVIVLELLITCRKASRQIMEFNDMDVWRMRQEE-----ERKBNGLNEMTQACLCRVt-----SPDRPT-----MDEVVALEKEA
380008.g -----PHHARLAAAKCPLELARG-----RRLSRAVDFGLVLELVVTCR-----VFDVDDGLAEWARLALSHE-----WtDILDVEIAdCRHQDMRLEBVALCAAV-----DPRRPr-----MDEVVALEKEA
AK107001.g -----VPAPAAD-----EAAKQSDVYVAFGVVLELLITCR-----SPEdGNVdLALWARIVVRE-----WtseVDFVLELPSRgGAEDEMVALLEVALCVAd-----DPQRP-----MAVVMKILQI

83500325.g ----SSPAAAAARSAVYRAPPFPFP----PRPWAQKQDVYAFQVWVLELITQRCPGSEDLNNGVVVLEPRRWQSVVRE EwtSEVFDLELMDKQIEBEMVAMQLAFSSGASA APDRPK TQYVVKITEBI
33470007.g NTGQAPHAMFAFRPPEAASAAAag-gAAARAAALSARSQVYCLGIVLLELITGKFPSSQYLLTARGGTDVQWAAASAVA GgtEQWVDFEVAAGAGFAAVLLRVRVQVCEP EPSPRS MADVAVRQVQ
AK071363.g NHMQSPNSMARRRPPCAAG HFVGAADVYCLGIVLLELITGKFPSSLYLQNAKGGTDVWMAATSIAD GyerDLFDKATTSANKFALFDMARLLRVAVDCEIP DADKRPD MKVAAARBEV
15241092.p ADKNTYLF TKGGK WLV WREFGDRDL ADYMKDRSFPNSL ESTMggrVLOQVESVRRRaHtK Qi MRGHTTSRDKI
15233564.p DDPDFDFSFDDFRGQRQLYAPRYFEHGg etQV AQA P-KPSPMDIFAVGCVIAELFLEGGQLF ELAQLLAYRRgHtP -SgHEKtP-D
30688174.p MEHDIVAS DEN COA Y-KLEDKDGETSEPPVTPDYENSFRQ GsdggqERBAMSgDEYFRQVEE Lk AKOVVR -D
15235518.p MEHDIVAS DEN COA Y-KLEDKDGETSEPPVTPDYENSFRQ GsdggqERBAMSgDEYFRQVEE Lk AKOVVR -D
15242039.p QPNSAQALFAFKTPEFAQT QVYSKSDVYCLGIVLLELITGKFPSSQYLN -NGKGGTDVQWVQ SSVAEgkEETLDEPVTN-ESMRQVLELFRVGAACIAS NPDEPon MREAVRHEQV
15229176.p QPNSAQALFAFKTPEFVQSSIA QVY-SKSDVYCLGIVLLELITGKFPSSQYLNNGKGGTDVQWVQSSIA QhEETLDEPVTN-ESIKQVLELFRVGAACIAS NPNERon QhEIVRIRHEQV
83563994.g NCSHAQQLMVAKSPERRQF GRSSKSDV CLGIVLLELITGKFPSSYDPPQPEAATANGDLVGAVast AVDSRwe DKTAVESIEEL
37750013.g TPRHAAQVMVAVYKPCGCEET GRSSKQDL SGLILILELITGKFPANHYRQRGGTDAGWVHSVRE eWtGEVDFDQEMRGARGGEGEMVWKLTKHGMACGAS DVDKRRD LRDALRHEEL
11610007.g TAFAAAQVMVAVYKPCVAA AAA GKPSKSDV SGLILILELITGKFPANLYRQRGGTDADLAGWSSVF SeertgEVDFDQEMRRRRRRRHAq AAFRP RILRRRRR-
18417769.p NRDSQGFQMVVAKPEQFVAA DRT-SRRSDV SGLILILELITGKFPANLYRQRGGADDELAAWESVA RteWtALVFDKEMKAKEEBAQMLKILKTKELRCDDW DIETRE EHEAVRHEEV
15231077.p NRDSQNLMLVSKSPSEYSLK GHLTKKTDV CLGIVLLELITGKFPANLYSQQYANMLVTVWNSVA KekkTGVDKEMKCKKNAKEMNLKGLSCSCE DEBERRE MREAVRHEEL
15238494.p NQKQAQMLMAVYKSPYVQHQ RRITKTKTDV CLGIVLLELITGKFPANFSQSSSEDLASWVNSFRGHV WapSLFDKGMKTKHCEQQLKLTTHGNCQp DVEKRLD IGOVKEIEEL
30678345.p NEBSAQMLMAVYKSPYVQHQ SRVTKKTDV SGLIVLLELITGLESFQVMDKSEDLASWVNSFKGCV -NtQELFDQMKKTKNCEBAHILKELKELSCCEV DVEKRLD IREAVRHEEDL
15227998.p NFVHARILGQYRAPPQSEI KRLSKQADVYSGVILLELITGSPRsaasAVEEEEEAVDLPKWVRS VVKEEWtAEVDFPELLRYKNEBEMVAMQLGLACVVP QPEKRPt MREAVRHEEV
15231955.p SHHFLIPSSRSLQYRAPPATEE RKH-TKSDVYSGVILLELITGKAAAGKTTGHEEVVDLPKWQSVVRE EwtgEVDFEVLKIQHNVEEMVQMLAMACVsk HPSRPS MREAVRHEEV
15237887.p NFVVRADSSARSVRYRAPPYDdT RRTSDESIVSFGVILLELITGKRSIMDDR -KEGIDVWVWVDV ISKQWtGEVDFEVLKVTNVEAKLQMLQGTSCtAm VPAKRPD MUKVVEIEBI
15236593.p SPLAPLHISROAQYRAPPYDdT RKS-SQSDVYSGVILLELITGKSPHITTAQDEILHILVRWHSVRE EwtAEVDFEILKRYLNIEBEMVQMLAMACVVR AADQRPk MDDLVRHEEV
15238453.p NLEHTHTPTIQYRAPPVLEZT RRVSRSDVYSGVILLELITGKTPITLQPL-EDEVLDLPRVW RSVVREewtAEVDFELKRYLNIEBEMVQMLAMACVVR NPSPRPk MREAVRHEEV
15252780.p SNSSPNSRLAQYRAPPVLEZT RKVTKSDVYSGVILLELITGKSPNOASLGEQIDLPFRWLSVRE EwtAEVDFELMRYNIEBEMVQMLAMACVSt VPDQRPp MOEVLRIEDV
47840010.g KKLGAACALRGGQALAYVAPLRTPGG AAAAATKQGVDFAGVILLELITGKREPT -EGEGGLEEAWVRRAKEE RplSEVVDVTLTgEVHAKKQVLEVDFVACGLQp DAELPRp MREAVRHEEDRI
15230877.p tyltattvritatvnylaparassg CKL-SQKQDVYSGVILLELITGKRPASSKNGKEELVRVRRWVKEE KplSEILDEPILNKQGHAKQVHAHVALNCEM DPEVPRp MRSVSESLRI
15227915.p sidqgfatrLsvsAPAAALPESARSSD CKL-SKQKQDVYSGVILLELITGKRPYGSSENGBEELVNRVKWKEE RslAEILDPKLLKQDFANKQVHAHVALNCEtEM DPEVPRp MRSVSESLRI
AK069218.g QSQSDASVSPVWYKGSQYQAPALKT LKPSKQDVYSGVILLELITGKRPVVLELTMQMDVQVQFCIEBK KpsADVLDLDPKLLKQDFANKQVHAHVALNCEtEM NPERRPS MREAVRHEEDRI
15226197.p HHKVSSEFFLHSSSSGsyQAPALTKM VKP-SQKQDVYSGVILLELITGKRSPAVEVGTSEMDLVRVWQVCIIEKK pICVLDLDCCLAPAEDEDEILVAVTKAISCVNs -SPKRPt MREAVRHEEDRI
19300012.g cysaaasataaaaaappVYQAPCLKN LREKNDVYSGVILLELITGKRPVYSEGLCQWAGVVEERSRLR MADPFLDEAGREADELACFKAFACAM APQKRPa MREAVRHEEDRI
AK106346.g gasplagpsgsgdtvamyQAPGKVN BKANAKQDVYSGVILLELITGK -ALTSLELCQWSSAESGQq vfrLADALRGEAGREADELACFKAFACAM APHKRPa MREAVRHEEDRI
30690913.g SIQTPSPSSVSGAMSHYCAPSFRS LKPSKQDVYSGVILLELITGKIVSVERIV-LGNQLTVEDGHRA VRMAVAVRRELQKGEALDEDCFKVSCASp VPOKRPt MREAVRHEEV
15227808.p tiQTPSPSSVSGISRYCAPSFRS LKE-NKQKQDVYSGVILLELITGKIVSDEVGVNGLTVEDGNRALIMA DVAVRSELEQKGEALDEDCFKVSCASq IPOKRPt MREAVRHEEV
18418404.p --TPARESHTPGTSSTYQPPESLTS LKNSKQDVYSGVILLELITGKIVSVDHD -IDQESNLSDSAE ENGRFLRLDRAVRSVAREDAAMACRFLGIECVSS LPQKRPp MREAVRHEEKI
15226084.p TSAHLLDGFLSSLDQPPESSTS QKP-NKQKQDVYSGVILLELITGK -I-VFSDVLDLVRSETDEKSW FIKLVGQEVREVAHREDAAMACRFLGIECVSS LPQKRPp MREAVRHEEKI
18408454.p EESFFNLQSSAGVRTIYVYAPPEYGMG QQP-SHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER IldiVDESILHIGLVRGEPVVECLMVEVGLRCCEE SPNRLa TSEIVKELISI
15228201.p KESFLNLQSSAGVRTIYVYAPPEYGMG QQP-SHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER VfeiaKALHIGLVRGEPVVECLMVEVGLRCCEE YPNRLa TSEIVKELISI
15241369.p RESFLNQSSAGVRTIYVYAPPEYGMG QQP-SHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER GHP-SHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER YPRDRg TDEAVRHEEV
15232728.p RDIHFHQSSAGVRTIYVYAPPEYGMG QQP-SHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER GHPSHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER QaldidETILRGAYQENHVECLMVEVGLRCCEE SPNRLg MREAVRHEEV
15232726.p QESFFNLQSSAGVRTIYVYAPPEYGMG QQP-SHGQDVYSGVILLELITGK KRPTEDELFGGNETLNSYTKSALPER RvshgVAVLDFRMKJATEADLTAADLVAVASCAAF SPLNRLa TSEIVKELISI
83524901.g NAAQSTSSAPRTIVYVYAPPEYAYM RvshgVAVLDFRMKJATEADLTAADLVAVASCAAF EADPRp MREAVRHEEV
AK064608.g -LGEDTISFRSMPTIYVYAPPEYGST GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl adVvhpgislyddtVSSDQAGestGSRSCAQLLDLShoCRd LPEDRVP MDVAVRHEEKI
AK072480.g -FGDSSITISMSPTIYVYAPPEYGLT GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl snvadCslqqdghtggTDSLSDESIILNCLASITLHIGLCSRD APDRVp MREAVRHEEKI
62470016.g -LGDSSITISMSPTIYVYAPPEYGLI GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl dvvvdhkldektngidGTALVSSNMLDRQVLSVLEVEGLCSRD LPEKRPp MREAVRHEEKI
83521161.g -CGDSSVISMSPPTIYVYAPPEYGSV GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl VmdvDNCILVQDSSSLNNFVLFVVEVEGLCSRD LPDORMt MREAVRHEEKI
83501185.g -LGDSSITISMSPTIYVYAPPEYGSV GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl LvhvLDDKLQDESSIqDLNLHILHIFVEVEGLCSRD LPDORMe MREAVRHEEKI
19200021.g -LGDSSITISMSPTIYVYAPPEYGLT GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl vhhvdgQLLQDTSCTSSTIDGFLVVEVEGLCSRD SPQRMe MREAVRHEEKI
83583851.g -LGDSSMISMSPPTIYVYAPPEYGTLL GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl vhhvdgQLLQDSSSSTTNLHIGLHIFVVEVEGLCSRD SPQRMa MREAVRHEEKI
33750012.g -LGDSSMISMSPPTIYVYAPPEYCAL GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl LvhvvdgQLLQDSSSSTTNLHIGLHIFVVEVEGLCSRD YPEQRMa MREAVRHEEKI
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83583855.g -LEDDSSAVSASMPTIYVYAPPEYALM GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl idvadehlldqdeetrLcfDYNTSLGSSSSTSRNSFLPSLVEVEGLCSRD SPQRMa MREAVRHEEKI
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83583848.g -LGDSSMISMSPPTIYVYAPPEYAFM GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl advdgrllqliiegvrqNNAISLPSRAIWPHEGLLHIFVEVEGLCSRD SPABRg ISDVVYKELSI
83583853.g -LGDSSAVSASMPTIYVYAPPEYAYM GKASRSDVSYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl ldvldrllqliiqgvlqNNDLSPCSATWANEDLHIFVVEVEGLCSRD SPABRMe INDVVYKELSI
56860023.g NAADVGSATNMLCGSITTYTPEYGG SNEPTKQDVYSGVILLELITGK KRPTEDMFVGEISLREWNRALPSRl davvpalaRMVDQTPVEVRMSDVAQLLEVEGLCSRD SAARpT MDVAVRHEEKI
48000008.g desapcnsiEgLLQGSVYIAPPEYGLG CHPSRQDVYSGVILLELITGK KRPTEVIFHEGLTLHDVRRHYPHdv aavvahaPwrrreAPSPMSTAAASPaADAVAVAVLLEVEGLCSRD SPALRPS MDVAVRHEEKI
48030006.g assdpcnsiEgLLQGSVYIAPPEYGLG CHPSNQDVYSGVILLELITGK KRPTEVIFHEGLTLHDVRRHYPHD VaAVARSWLTDAAGYDVAVLLEVEGLCSRD SPAPRPT MDVAVRHEEKI
48030005.g STPYFRSSITRLLQGSVYIAPPEYGLG CNPNSQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD DdvvaAVEESAATSRHETIVVVBLLLEVEGLCSRD VPAPRPT MDVAVRHEEKI
15242094.p DDEVFGSDTGLLQGSVYIAPPEYGMG KRA-SPHQDVYSGVILLELITGK KRPTEVILNVEGSLHEFMKSHYSPDsl egieiqalSRWKPOGKPEKELRVEVEVEGLCSRD NPSTRp MDVAVRHEEKI
83543561.g NEVEGSSKSLTQKQKSIYTPPEYGMs EVISNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD seivdpbMLQGEIKVITVMQNCILPLVVRHCCSVa SPNDRe MREAVRHEEKI
83543564.p NAYEGSSKSLQKQKSIYTPPEYGMs EvtSNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD TyEIVDPRLMqGemitVMQNCILPLVVRHCCSVa SPKDRMe MREAVRHEEKI
83543590.g NAHKDISTSLAQKQKSIYTPPEYGMN EDISNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD hevvdptMLQDPIISVADMMERCVFVLRVHCCSVa LPRRPe MREAVRHEEKI
83543574.p NAHQYTSLSLQKQKSIYTPPEYGMs KDISNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD ThevvdptMLQDQVSVADMMERCVFVLRVHCCSVa LPRRPe MREAVRHEEKI
83543568.g TAHEPTSTSLAQKQKSIYTPPEYGMR KDISNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD TyevvdptMLQDQVSVADMMERCVFVLRVHCCSVp LNERPe MREAVRHEEKI
65920021.g TANQDTSTSLPQKQKSIYTPPEYGMs KDISNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD IsktsdSHLVEEVOEN -G-
83543553.g NLDQESVLSLQKQKSIYTPPEYGMs KEISNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD VLESRNLEPT -TVRARFATAV
65920033.g NSDQDSTLSLQKQKSIYTPPEYGMs EERSNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD fkvvdptMLQDQVSVADMMERCVFVLRVHCCSVt SPKDRCe MREAVRHEEKI
24300006.g TAACANSTSLADKQKSIYTPPEYGMG QTSNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD deildpimLQDLDGGKYHTEPMQSCVPLPMVKLGLCSRD SPKDRg MREAVRHEEKI
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83583244.g SAGLNSLSLQKQKSIYTPPEYGMG QTSNKQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD veileasiprythegrnHDLDDVDEMIMERCFLHMLKHLGLCSRD SPQDRp LIDVVYKELSI
83521320.g SSNFLKPEQVFGCTIYVYAPPEYGMG OCSISACQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD IgevlDpHMPRDKVYHDLWMLQKFLVAVGLCSRD SPNDRp MREAVRHEEKI
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42600001.g SGTQSISSMAGPRGSIYTPPEYGMG SQTISNGQDVYSGVILLELITGK RRPNTSIFTDGFTLRMVNANSLSQI KDLDFRPLPEM -T-
40870015.g SGTQSISSMAGPRGSIYTPPEYGMG SGTQSISSMAGPRGSIYTPPEYGMG -G-
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73960007.g IISLNNSSSLAQKQKSIYTPPEYGLG LLH- SKISHEQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD gildpsimyenedndanNLDLDNCLMDMNCVNLKVLKGLCSRD AFKDRp MREAVRHEEKI
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55310015.g ARDBESVSTHNNKKTITTYTPEYGYG AKISHSQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD -G-
83582782.g SSLMQQSTSMGFRGSIYTPPEYGMG AKISHSQDVYSGVILLELITGK KRPTEVIAEBEGHSLHEWVRRRLSSD -G-

Xa21.q TSLIQQSTSMGPTTITTYAAP ---GQ--- VLPVF ---C ---I---
83582784.q TSLIQQSTSMGFRTTIYAAPEYGVG ---HIASHGDIYSYGILLVLEIVTG---KRPTDSTFRPDLGLRQYVELGLHGRV ---tdvvdtkliidseenWLNSTNNSPCrRITECTVSLLRGSPSCGev---LPLSRtp---TGDITIDENAI
83582717.q SSMIQQSTSMGFRTTIYAAPEYGVG ---NTASHGDIYSYGILLVLEIVTG---MRPADSTFRGSLRQYVEPGLHGR1 ---mdvvdrrklgdsekWLQARDVSPCStITECLVSLLRGSPSCGev---LPSRrtq---AGDIVNBLRAI
83582780.q SSSLQSTSMGFRTTIYAAPEYAG ---NTVSNQDIIYSYGILLVLEIVTG---KRPTDNRFRQGLSLREYVQALHGE ---TmdivdsqtlleENBCALQDSStYkRKIDCLVSLLRGSPSCGev---LPLSRmr---TDDIVNBLHAM
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83582775.q NSVFPSTNSILFRTTIYAAPEYAGVAGE---DrpoyeyAGNIVSNQDIIYSYGILLVLEIVTG---KRPSDSFTQGLSLCESVSLGLHGV ---mdivnklCLGidqHDPETDDFSKQKIDCLVSLLRGSPSCGev---MPSRrls---TDDIKELHAI
83582786.q SSMFQSTSMGFRTTIYAAPEYAG ---NMVSNQDIIYSYGILLVLEIVTG---KRPSGSEFTQGLSLREYVELGLHGV ---meivdmrldmltengIPTNDATYkRrVBCIVLRLKGLGSPSCGev---LPSRrSS---TDDIKELLAI
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40910014.q GEQLNSKSSVGMGTIYIYAAPEYARC ---GQISPSGDVYSFGVILLEMFTG---RAPNDMFDDGTLTQKYVAMAYPAR ---LidivDPHLLSIENTLgEINCVMSVTRALVCSRa---KPTBRlr---MRDVADEMOTI
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83582226.q GEQPLNSKSSIGRRTIYIYAAPEYGVG ---GQVSPCGDAYSFGVILLEMFTG---MVPTHDMFRDGLTLQKHKVNVFPGI1 ---mkivdpillsiegvytsNLPGRNAMeHMHAIILSILMIALSQRq---APTBRmr---TRDAADLRRTV
83503055.q SGLSAGDSNVGHRRTIYIYAAPEYAG ---GQASVVDGAYSFGVILLEMFTG---KAPTDNMFREGTLTLEHAEMLPEK ---IseiidpALLHVOYDTPaEILTCASIVRIGVCSQRk---NPBRmda---MREAAAKLRI
AK100775.q GAAANTEBAGHRRTIYIYAAPEYGT ---GQVATASGDVYSFGVILLEMFTG---KAPTDGELRDLTLEHFAAGAFPDNI ---eeildvallleldgaestTSBSEBARTVRDCLASIVRIGVCSQRk---APYBRma---MREAAAKRLRI
27120029.q TKIHLNKSSTIGRRTIYIYAAPEYAG ---SAASKLGDVYSFGVILLEMFTG---TSPTDDMFKDSLNLHFAFAAFPDRA ---leiadrtiwlheeanTDATASMTgRIIQOQLSVLRLGSPSCGev---QPRDRml---LADVAKSHAI
27120031.q VKIALHDSVIGHRRTIYIYAAPEYEG ---SAVSRLDGDIYSGLLLEMLFTG---RSPDMDMFKDSVLDHFAAFAFPDRV ---ldiadrtiwlheeanKIDTASHTgRIIQOQLSVLRLGSPSCGev---QPRDRml---LADVAKSHAI
27120033.q TRTLQYSKSTIGRRTIYIYAAPEYEG ---SAVTRAGDIIYSGLLLEMLFTG---RSPDMDIFRDSMDLHKFVAASFLBSa ---mniadrtiwlheeanTDGTNASTKRRIIQOQLSVLRLGSPSCGev---QPRDRml---LADVAKSHAI
27840023.q TKTLQSSKSTIGRRTIYIYAAPEYEG ---SITRAGDIIYSGLLLEMLFTG---RSPDMDIFRDSMDLHKFVAASFLHQp ---ldiadrtiwlheeanVADVKNESKTRRIIQOQLSVLRLGSPSCGev---QPRDRml---LADVAKSHAI
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83505202.q AvgDSSSICSHGKRTIYIYAAPEYAGG ---GCLSTSGDVYSFGVILLEMFTG---KRPTDPLFCNGLSIVSFERVNYPDV ---TdhidiytrkdlKELAPAMLDEKAAAYQLLDLMLGVALSQRk---NPBRmda---MREAAAKLQVI
83513801.q SGLHSCNpSLIGKRTIYIYAAPEYARC ---GNASHYGDVYSFGVILLEMFTG---KRPTDPMFENELINVNFKEKFPBQI ---phiidaqgeekGFNFQRIQENRfYKCLLSVVALSQRk---IPBRmd ---TREAIAKLOAI
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83580644.q SFGDSSLTSIAKRTIYIYAAPEYAG ---GRVSPASDIYSFGVILLEMFTG---RRPTDPMFKDGLSISKYTEINFPDR ---MlqivdpqllrelDLCQETPINSVEKNEVCLLSVNLGSPCCkq---VPBRms ---MOEVAARKHAI
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83580634.q GSNDSNIYSIAKRTIYIYAAPEYAG ---GQVSPADVYSFGVILLEMFTG---KRPTDPMFKDGLDIAKYVEMNSPDR ---LpquidpELLQETHVGTKeRVLCCNSVNLGSPCCkq---SPYBRmd ---MREVAARKHAI
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83594289.q HSLPDISSGWAHRRTIYIYAAPEYGLG ---NKVSIYGDIIYSFGVILLEMFTG---KRPTDADFAQDLSLHRLF ---AmeivdqmLQLKkDMEKkFELGCLSVLRLGSPCCkq ---SPRBRml ---TGYVRLISV
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19690008.q NNASQVSSWAAFRRTIYIYAAPEYGLG ---NEVTSQDVYSYGILLLEMLFTG---RRPTDQNFENENLHNFVEEALPDS ---LleimNATIPDGSQdIVDFWFAHSPRSHACQRd ---SASQRmr ---MNEVVKBLSGI
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83561438.q IAEFPKSSSFLVHKRTIYIYAAPEYGG ---GQISVGDVYSYGILLLEMLFTG---KRPTDDEFGAAGLRKYVQMALPDN ---AmeivdqmLQLKkDMEKkFELGCLSVLRLGSPCCkq ---SPRBRml ---TGYVRLISV
83561443.q IAEFPKSSSFLVHKRTIYIYAAPEYGG ---SQVSMDDGDIYSYGILLLEMLFTG---RRPTDNEFINGITSLVDYVKMAYPN ---CgpaqcrpphantaqrQLPFLLEFAASEFQSVLL ---Pr ---LREVQQAQOV
40820017.q EQQCIGESSVGHKRTIYIYAAPEYGMG ---SFSVMDGDIYSYGILLLEMLFTG---RRPTDNEFINGITSLVDYVKMAYPN ---LleildNATYNGNTQdMTQLVWVYFPERGSPACQke ---SPRBRmk ---MDVVKELHAI
61030015.q SRQSLGESISNGVRSIGIYLAPEYGMG ---TBSRREGDIYSYGILLLEMLFTG---RRPTDPMFKDGLSIAKFTAINFPDK ---LleimNATIPDGSQdIVDFWFAHSPRSHACQRd ---SASQRmr ---MNEVVKBLSGI
15226084.p ---TSAHLLDGFLSSLDQDPE---STS---QKP---NKKNDVYSFGVILLEMFTG---I---VFSVDLVRDSETEKSW ---LspivdAAITIANVGGQeTINMFWFAHSPRSHACQRd ---NASQRmn ---FGEIVKBLVFL
 ---FLKIVDGBRVEVAHREDEVAACKGLGYECVSS---LPQRPS ---MREVVQVLEKM